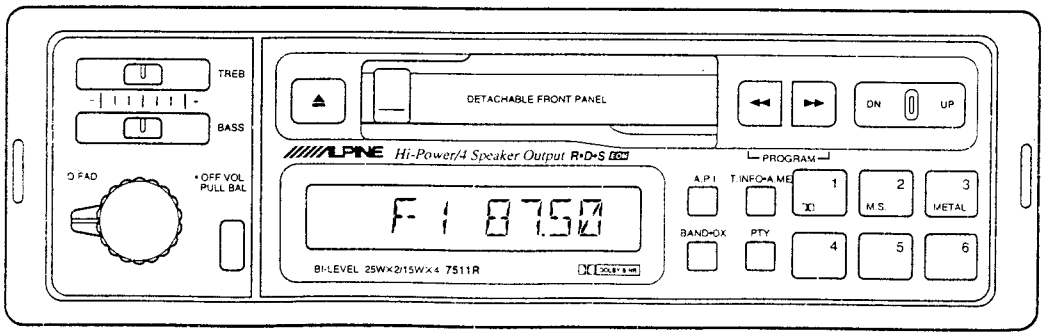
336

ALPINE

SERVICE MANUAL

FM/MW/LW/RDS Cassette Receiver

- For the cassette deck mechanism parts (GS75A010/020) of this model, refer to the Service Manual · GS Series (68P61027W01)



(7511R)

336

7511R/7510R

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Spare Schematic Diagram Inserted.

Specifications

FM RADIO

Intermediate Frequency	10.7MHz
Frequency Range	87.5~108MHz
Usable Sensitivity (Stereo at 98.1MHz)	17.2dBf
Limiting Sensitivity (-3dB, at 98.1MHz)	23.2dBf
S / N Ratio (Stereo at 98.1MHz)	54dB
Image Rejection (at 106.1MHz)	40dB
IF Rejection (at 90.1MHz)	60dB
Distortion (at 98.1MHz)	1%
Frequency Response (Ref. 400Hz, at 98.1MHz)	100Hz : 0±3dB
	10kHz : -12±3dB
Stereo Separation (at 98.1MHz)	25dB

MW RADIO

Intermediate Frequency	450kHz
Frequency Range	531~1,602kHz
Usable Sensitivity (20dB S / N, at 999kHz)	34dB
S / N Ratio (at 999kHz)	44dB
Image Rejection (at 1,404kHz)	50dB
IF Rejection (at 603kHz)	60dB
Distortion (at 999kHz)	1.2%
Frequency Response (Ref.400Hz, at 999kHz)	100Hz : -3±4dB
	4kHz : -12+4, -8dB

TAPE PLAYER

Wow & Flutter (JIS, WRMS / MTT - 111)	0.3%
Tape Speed (MTT - 111)	4.76cm / sec. +3 to -1%
S / N Ratio (MTT-212N)	52dB
Distortion (MTT - 118N)	2%
Frequency Response (Ref. 1kHz, MTT-256)	63Hz : -4dB
	8kHz : -4dB
Separation (MTT-141N)	32dB
Crosstalk (MTT-121N)	45dB
FF & REW Time (C-60)	115sec.

GENERAL

Power Supply	DC14.4V
Power Output / Impedance	11W / ch / 4ohm
Output Voltage / Impedance	500mV / 10kohm
Semiconductors	20 IC's, 45 Transistors, 29 Diodes, 8 Zener Diodes (○)
	18 IC's, 40 Transistors, 27 Diodes, 8 Zener Diodes (●)
Dimension (W×H×D)	Chassis : 178×50×142mm
	Nose : 172×49×21mm
Weight	1.4kg

Note : Due to Continuing product improvement, specifications and designs are subject to change without notice.
○ : For 7511R Model Only, ● : For 7510R Model Only, Others : Common

In Case of Difficulty

If you encounter a problem, please review the items in the following checklist. This guide will help you isolate the problem if the unit is at fault. Otherwise, make sure the rest of your system is properly connected or consult your authorized Alpine dealer.

Initial Turn-on After Installation

Symptom	Cause	Solution
No function or display.	Car's ignition is off.	If connected following instructions, the unit will not operate with the car's ignition off.
	Improper power lead connections.	Check power lead connections.
	Blown fuse.	Check the fuses on the battery leads; replace with the proper value if necessary.

Radio Mode

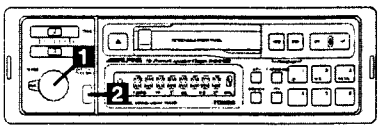
Unable to receive stations.	No antenna or open connection in cable.	Make sure the antenna is properly connected; replace the antenna or cable if necessary.
Unable to tune stations in the Seek mode.	You are in a weak signal area.	Make sure the tuner is in the DX mode.
	If the area you are in is a strong signal area, the antenna may not be grounded and connected properly.	Check your antenna connections; make sure the antenna is properly grounded at its mounting location.
	The antenna may not be the proper length.	Make sure the antenna is fully extended; if broken, replace the antenna with a new one.
Broadcast is noisy.	The antenna is not the proper length.	Extend the antenna fully; replace it if it is broken.
	The antenna is poorly grounded.	Make sure the antenna is grounded properly at its mounting location.

Tape Mode

Symptom	Cause	Solution
Cassette insertion not possible.	There is a cassette already in the transport.	Eject the cassette in the transport and remove.
	The cassette is being improperly inserted.	Make sure the cassette is being inserted per instructions in Owner's Manual.
Unable to Fast-Forward or Rewind; Fast-Forward or Rewind is very slow.	The cassette has been damaged or the tape is very old.	Eject the cassette and discard; using a damaged or very old cassette in your unit can cause damage to the transport.
Poor High Frequency response.	Low quality recording tape.	Compare the sound to that of a high quality tape.
	Tape head dirty.	Clean the head per the Owner's Manual instructions.
	Dolby NR activated for a non Dolby NR recorded tape. (7511R only)	Make sure the Dolby NR function is deactivated.
	Tape head out of alignment.	Return to Authorized Centre for service.
Excessive tape hiss. (7511R only)	Dolby NR not activated for Dolby NR encoded tape.	Make sure the Dolby NR function is activated.
Tape speed fluctuates.	Dirty pinch-rollers/capstan; worn motor or drive belt.	Return to Authorized Centre for service.

Detachable Front Panel

Detaching the Front Panel



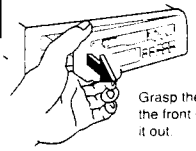
1

Rotate the VOLUME control counterclockwise until a click sound is heard to turn off the power.

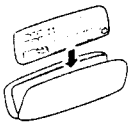
2

Press the release button until the front panel pops out.

3

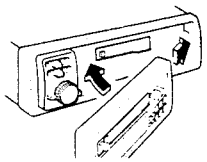


Grasp the left side of the front panel and pull it out.



Note: To protect the front panel, place it in the supplied carrying case.

Attaching the Front Panel

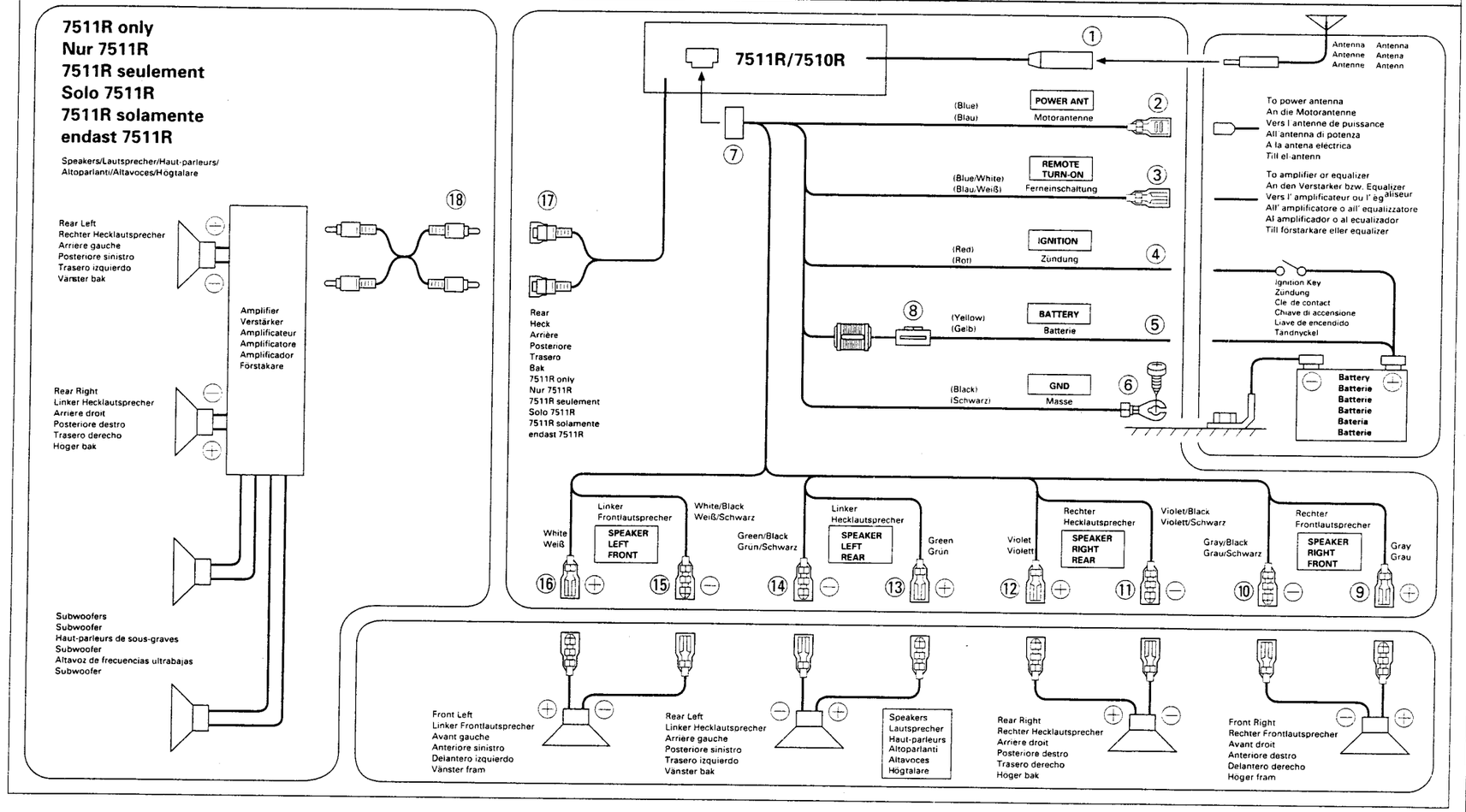


1

1. First, insert the right side of the front panel into the main unit. Align the 2 small holes on the front panel with the 2 projections on the main unit.
2. Push the left side of the front panel until it locks firmly into the main unit.

Note: Before attaching the front panel, make sure that there is no dirt or dust on the connector terminals and no foreign object between the front panel and the main unit.

System/Komponentenanlage/Sistema

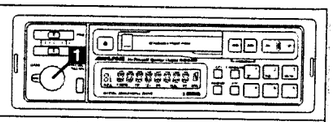


English

① **Antenna Receptacle**
② **Power Antenna Lead (Blue)**
When loaded with a power antenna, connect to the +B terminal of the power antenna.
③ **Remote Turn-On Lead (Blue/White)**
Connect this lead to the remote turn-on lead of your amplifier or signal processor.
④ **Switched Power Lead (Ignition) (Red)**
Connect this lead to an open terminal on the vehicle's fuse box or another unused power source which provides (+) 12V only when the ignition is turned on or in the accessory position.
⑤ **Battery Lead (Yellow)**
Connect this lead to the positive (+) post of the vehicle's battery.
⑥ **Ground Lead**
Connect this lead to a good chassis ground on the vehicle. Make sure the connection is made to bare metal and is securely fastened using the sheet metal screw provided.
⑦ **Power Supply Connector**
⑧ **Fuse Holder (5A)**
⑨ **Right Front (+) Speaker Output Lead (Grey)**
⑩ **Right Front (–) Speaker Output Lead (Grey/Black)**
⑪ **Right Rear (–) Speaker Output Lead (Violet/Black)**
⑫ **Right Rear (+) Speaker Output Lead (Violet)**
⑬ **Left Rear (+) Speaker Output Lead (Green)**
⑭ **Left Rear (–) Speaker Output Lead (Green/Black)**
⑮ **Left Front (–) Speaker Output Lead (White/Black)**
⑯ **Left Front (+) Speaker Output Lead (White)**
⑰ **Rear Output RCA Connectors (7511R only)**
RED is right and WHITE is left.
⑱ **RCA Extension Cable (Sold Separately)**

Basic Operation

Turning Power On and Off



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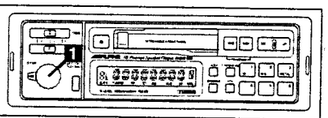
Rotate the VOLUME control clockwise to turn on the unit.

Rotate counterclockwise until a click sound is heard to turn off the unit.

Adjusting Volume



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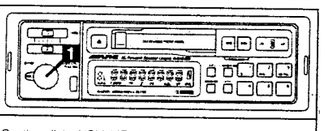
Rotate clockwise to increase the volume level and counterclockwise to decrease the volume level.

Adjusting Balance Between Left and Right Channels



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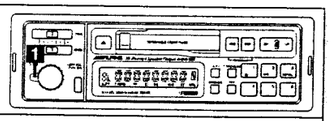
1. Gently pull the VOLUME control out until it locks into place with a click.
2. Rotate the control clockwise or counterclockwise to decrease the level of the left or right channel respectively. At the centre detent position, the levels of both channels are equal.

Adjusting Fader (Between Front and Rear Speakers)



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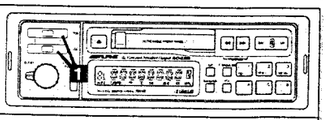
Rotate the FADER control clockwise or counterclockwise to decrease the level of the rear or front speakers respectively. At the centre detent position, the levels of both front and rear speakers are equal.

Adjusting Treble and Bass



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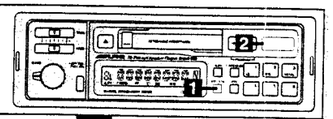
Sliding the TREBLE or BASS control to the left or right will decrease or increase the amount of Treble or Bass. At their centre detent positions, these controls do not affect the sound.

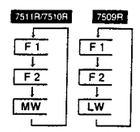
7511R / 7510R

Radio Operation

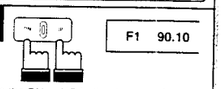
Manual Tuning



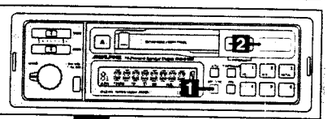
1 Press repeatedly until the desired radio band is displayed.



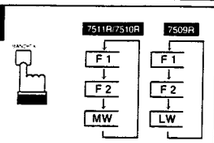
2 Press the DN or UP button to move the station frequency downward or upward one step until the desired station frequency is displayed.



Automatic Seek Tuning



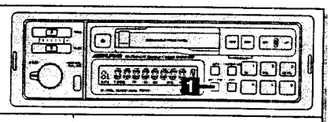
1 Press repeatedly until the desired radio band is displayed.



2 Press and hold down the DN or UP button for at least **0.5** seconds to automatically seek a station downward or upward.
When the unit finds a station, it stops at that station.
To automatically tune to the next station, press the button again for at least **0.5** seconds.
To cancel the automatic seek tuning, press the same button again.

Note: The ST indicator appears on the display when a Stereo FM station is tuned in. If the stereo FM signal becomes weak, the ST indicator disappears and the unit automatically switches the mode from stereo to monaural to reduce the noise. When the signal becomes strong enough, the unit automatically switches back to the stereo mode.

Auto-Seek Tuning Sensitivity



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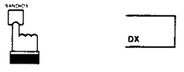
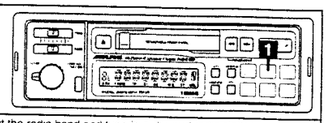


Press the BAND•DX button for at least **2** seconds to illuminate the DX indicator in the display. With the DX mode activated, both strong and weak stations will be tuned in the Auto-Seek mode.

Press the BAND•DX button again for at least **2** seconds to return to the local mode. The DX indicator will turn off and only strong stations will be tuned.

Radio Operation

Manual Storing of Station Presets



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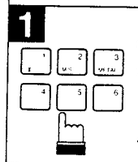
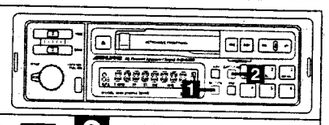


1. Select the radio band and tune in a desired radio station you wish to store in the preset memory.
2. Press any one of the preset buttons (1 through 6) for at least **2** seconds until the station frequency on the display blinks.
3. Press the preset button into which you wish to store the station while the frequency display is blinking (within 5 seconds).
   The display changes from blinking to steady lighting indicating that the station has been memorized. The display shows the preset No. and station frequency memorized.
4. Repeat the procedure to store 5 other stations onto the same band. Use this procedure for other bands.

A total of 18 stations can be stored in the preset memory (6 stations for each band; FM1, FM2 and MW (for 7511R/7510R) or LW (for 7509R)).

Note: If a preset memory has already been set in the same preset location, it will be cleared and the new station will be memorized.

Automatic Memory of Station Presets



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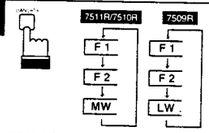
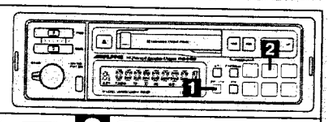


Press repeatedly until the desired radio band is displayed.

2 Press for at least **2** seconds. The frequency on the display continues to change while the automatic memory is in process.
The tuner will automatically seek and store 6 strong stations in the selected band in order of signal strength.
When the automatic memory has been completed, the tuner goes to the station stored in the preset location No. 1.

Note: If no stations are stored, the tuner will return to the original station you were listening to before the auto memory procedure began.
When a preset station is selected, a triangle with 4 horizontal stripes will be displayed next to the preset number.

Accessing Preset Stations



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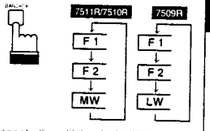
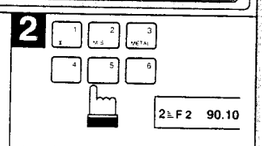


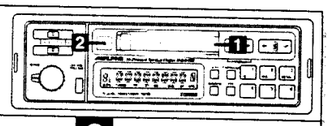
Press repeatedly until the desired band is displayed.

2 Press the station preset button that has your desired radio station in memory. The display shows the band, preset number and frequency of the station selected.



Cassette Player Operation

Inserting/Ejecting Cassette



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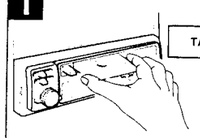
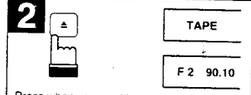


Insert a cassette tape into the slot with the open side facing to the right. The player automatically starts tape playback and the display shows "TAPE" and the tape side being played (△ or ▽).

When the end of the tape is reached, the player automatically reverses the tape direction and plays the other side of the tape.

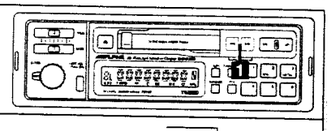
2



Press when you want to stop tape playing and eject the cassette tape.
The unit plays the radio and the display shows the radio band and the station frequency that you were listening to previously.

Note: Make sure the cassette is ejected before turning off the unit or removing the front panel. If the cassette is left in the unit for a long period with the power off, there is a chance of the pinch-rollers or head deforming the tape. This could degrade performance.

Reversing Tape Direction



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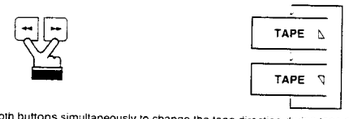
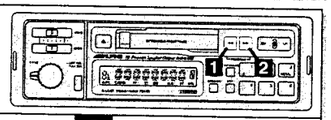
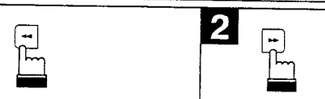


Press both buttons simultaneously to change the tape direction during tape play. The tape side indicators (△ and ▽) show which side of the cassette is being played.

Fast Forwarding and Rewinding



1



Press in until a light click is heard. This locks the mechanism in the rewind mode when playing the top side of the tape (△ indicator on) or in the fast-forward mode when playing the bottom side (▽ indicator on).
Lightly press the ►► button to continue playing.

When the end of the tape is reached:
△ — the player stops, automatically, and begins playing the tape from the beginning of the same side.
▽ — the player stops and automatically reverses the tape side and continues playing from the beginning of the opposite side.

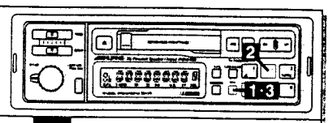
2

Press in until a light click is heard. This locks the mechanism in the fast-forward mode when playing the top side of the tape (△ indicator on) or in the rewind mode when playing the bottom side (▽ indicator on).
Lightly press the ◄◄ button to continue playing.

When the end of the tape is reached:
△ — the player stops and automatically reverses the tape side and continues playing from the beginning of the opposite side.
▽ — the player stops, automatically, and begins playing the tape from the beginning of the same side.

Cassette Player Operation

Monitoring Radio During Fast Forwarding or Rewinding



1 Press the PTY button for at least **3** seconds.

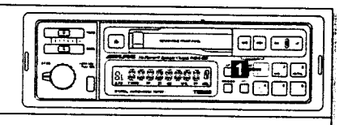
2 Press the Preset Number 2 button to activate or deactivate the radio monitor mode. With the Radio Monitor mode activated, you can listen to a radio station during the tape rewinding or fast forwarding.

3

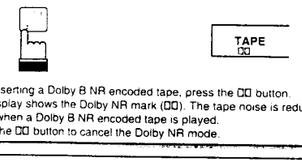
Press the PTY button for at least **3** seconds.

7511R only

Dolby B NR (Noise Reduction)



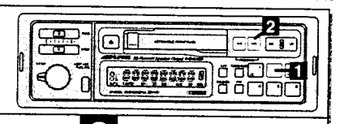
1



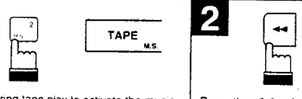
After inserting a Dolby B NR encoded tape, press the □□ button.
The display shows the Dolby NR mark (□□). The tape noise is reduced in the Dolby NR mode when a Dolby B NR encoded tape is played.
Press the □□ button to cancel the Dolby NR mode.

7511R only

M.S. (Music Sensor)



1



Press during tape play to activate the music sensor mode. The display shows "M.S."

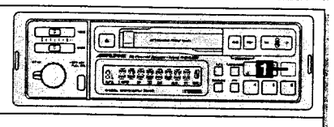
Press to deactivate the music sensor mode. "M.S." on the display disappears.

2

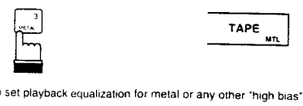
Press the ◄◄ or ►► button to quickly return to the beginning of the current program or skip to the beginning of next program.
The player automatically stops and begins playback when the beginning of the program is reached.

7511R only

Playing Metal Tapes



1

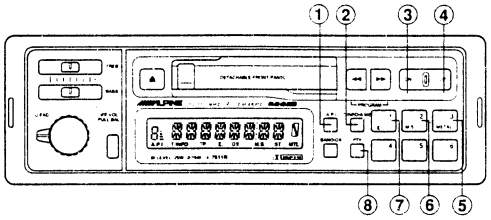


Press to set playback equalization for metal or any other "high bias" tape. The display shows "MTL."
Press to deactivate the metal mode. "MTL" disappears from the display.

RDS

The RDS (Radio Data System) is a radio information system using the 57 kHz subcarrier of regular FM broadcast. The RDS allows you to receive a variety of information such as traffic information, station names, and to automatically re-tune to a stronger transmitter that is broadcasting the same programme.

7511R

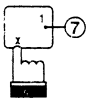


Setting RDS Reception Mode and Receiving

1

Press for at least **3** seconds.

2



Press repeatedly to select the desired A.P.I. (Automatic Programme Identification) or PS (Programme Service Name) mode.

Note: Use the PS ONLY mode when automatic retuning is not required.

3

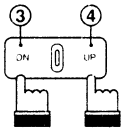
Press to activate the selected mode.

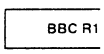
Setting RDS Reception Mode and Receiving

4

Press to activate the RDS mode.

5





Press the DN or UP button to tune in the desired RDS station.

When the station signal being received has become weak;

A. In the A.P.I./PS mode the unit automatically re-tunes to a stronger station that carries the same programme

B. In the PS ONLY/A.P.I./PS mode

Press for more than **2** seconds to have the unit automatically search for a stronger station in the AF (Alternative Frequencies) list.
If there is no AF station, the display shows "SEEK END."

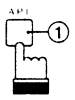
6

Press again to deactivate the A.P.I. mode.

Note: You can tune in an RDS station while you are listening to cassette play. Choose your desired station in **5** seconds after the step 4 above.

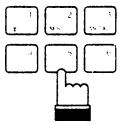
Recalling Preset RDS Stations

1



Press to activate the RDS mode.

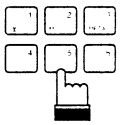
2



BBC R1

Press the preset location button in which your desired RDS station is preset. If the preset station's signal is weak, the unit automatically searches and tunes to a stronger station in the AF (Alternative Frequencies) list.

3 If the preset station and the stations in the AF list cannot be received:



PI SEEK

Press the same preset location button again to search again for a station in the PI (Programme Identification) list.
If there are still no stations receivable in the area, the unit displays the frequency of the preset station and the preset indicator disappears.
If the signal level of the Regional (Local) station being tuned becomes too weak to receive, press the same preset location button to tune in a Regional station in other district.

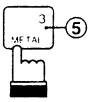
Note: For presetting the RDS stations, refer to the Radio Operation section. The RDS stations can be preset in the F1, F2 bands only.

Receiving RDS Regional (Local) Stations

1

Press for at least **3** seconds.

2



REG ON

REG OFF

Press to turn on or off the REG mode.
In the REG ON mode, the unit automatically keeps receiving the related local RDS station.

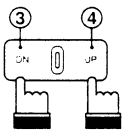
3

Press to activate the selected mode.

4

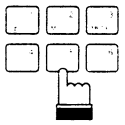
Press to activate the RDS mode.

5



Press to tune in the desired local (regional) RDS station.

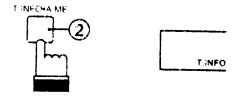
6



Press repeatedly the preset location button corresponding to your desired station during reception of a Regional station to search for a receivable Regional station. Each pressing tunes in another receivable Regional station.

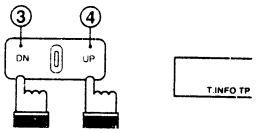
Receiving Traffic Information

1



Press to display the T.INFO indicator.

2



Press the DN or UP button to select your desired traffic information station. When a traffic information station is tuned in, the TP indicator lights up.

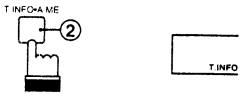
Traffic information is heard only when it is being broadcast. If traffic information is not being broadcast, the unit is set in the standby mode. When a traffic information broadcast begins, the unit automatically receives it and the display shows "TRF-INFO."

When traffic information broadcast is over, the unit will automatically set in the standby mode.

Notes:
- If the traffic information broadcast signal falls below a certain level, the unit remains in the receiving mode for 1 minute. If the signal remains below a certain level for over 1 minute, the unit is set in the standby mode for the traffic information broadcast.
- IF you do not want to listen to the traffic information being received, lightly press the T. INFO button to skip that traffic information message. The T. INFO mode will remain in the ON position to receive the next traffic information message.

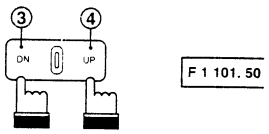
Receiving Traffic Information While Playing Cassette or Radio

1



Press until the T.INFO indicator appears.

2



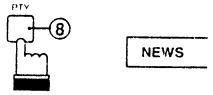
Press to select a traffic information station if necessary.

- When a traffic information broadcast starts, the unit automatically mutes the cassette tape or the regular FM broadcast.
- When the traffic information broadcast finishes, the unit automatically returns to the original source play before the traffic information broadcast began.
- **When traffic information stations cannot be received:**
  In the tuner mode:
  When the TP signal can no longer be received, an alarm will be sounded after 1 minute.
  In the tape mode:
  When the TP signal can no longer be received, the traffic information station of another frequency will be selected automatically.

Note: The receiver is equipped with the EON (Enhanced Other Networks) function in order to keep track of additional alternative frequencies to the AF list. If the station being received does not broadcast the traffic information, the receiver automatically tunes in the related station that broadcasts the traffic information when it occurs.

PTY Tuning

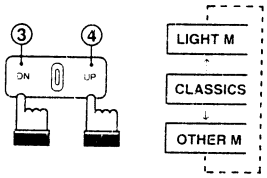
1



Press to activate the PTY mode.
The PTY (Programme Type) of the station being currently received will be displayed for **5** seconds.
- If there is no receivable PTY broadcast, "NONE" will be displayed for **5** seconds.
- If no RDS station can be received, the display shows "NO RDS".

Note: If no button is pressed within **5** seconds after pressing the PTY button, the PTY mode will be automatically cancelled.

2



Press within **5** seconds to choose the desired programme type while the PTY programme type is being displayed.

The tuner starts searching for a station when the PTY button is pressed within **5** seconds after selecting the PTY programme type.
The chosen programme type indicator blinks during searching and lights when a station is found.

If no station is found, "NO PTY" will be displayed for **5** seconds.

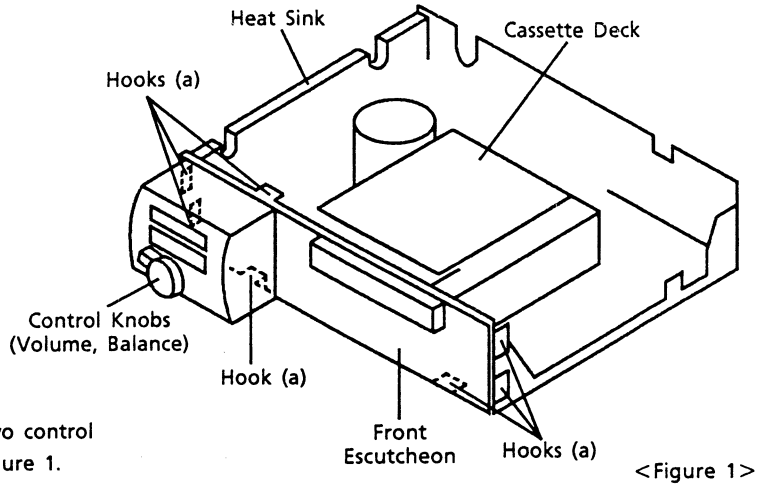
3

Press for **2** seconds to cancel the PTY mode.

Disassembly Instructions

1. Removal of Nose Unit

(1) Refer to the Owner's Manual (Parts No. 68P60141W19).



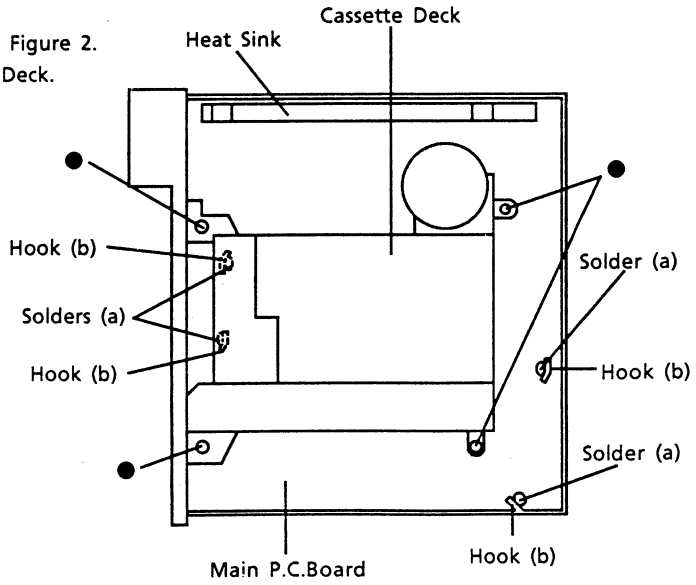
<Figure 1>

2. Removal of Front Escutcheon

(1) After removal of Top Cover, remove two control knobs (Volume, Blance) as shown in Figure 1.
(2) Remove the Hooks (a) as shown in Figure 1.

3. Removal of Cassette Deck

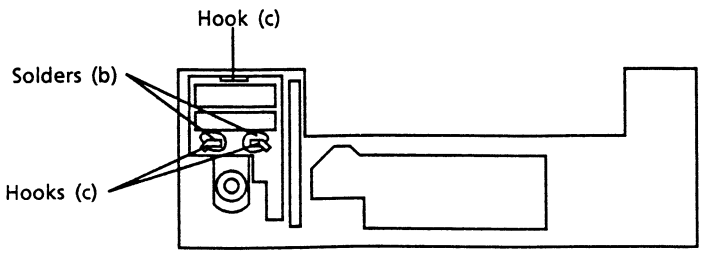
(1) Remove four screws marked "●" as shown in Figure 2.
(2) Disconnect two Connectors from the Cassette Deck.



<Figure 2>

4. Removal of Tone P.C.Board

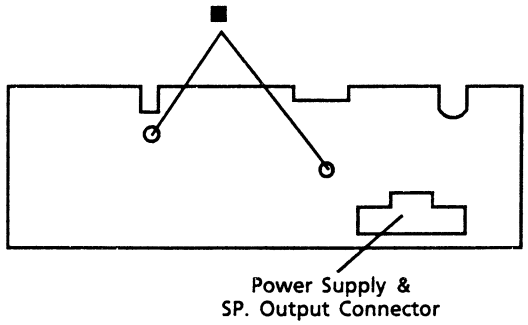
(1) After removal of Front Escutchion remove the solders (b) and Hooks (c) as shown in Figure 3.
(2) Disconnect one connector from the Tone P.C.Board.



<Figure 3>

5. Removal of Main P.C.Board

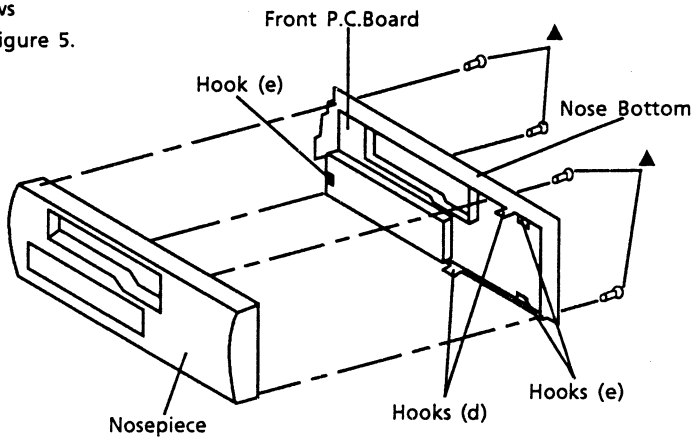
(1) Remove the Solders (a) and Hooks (b) as shown in Figure 2.
(2) Remove two screws marked "■" as shown in Figure 4.
(3) Disconnect two Connectors from the Main P.C.Board.



<Figure 4>

6. Removal of Front P.C.Board

(1) After removal of Nose Unit, remove four screws marked "▲" and the Hooks (d) as shown in Figure 5.
(2) Remove the Hooks (e) as shown in Figure 5.



<Figure 5>

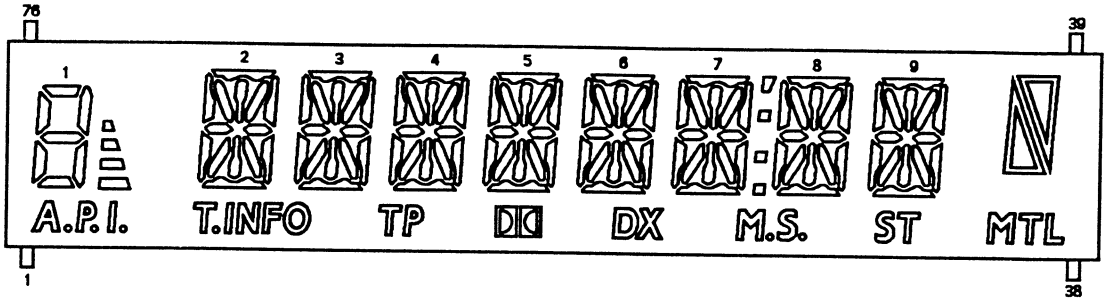
Description of IC Terminal

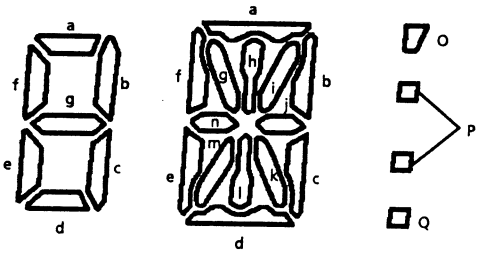
55504W01 (IC501)

No.	Symbol	I / O	Terminal Description
1	$\overline{\text{RESET}}$	I	System Reset Input.
2	X1	I	System Clock 1.
3	X2	I	System Clock 2.
4	MD1	I	Enlargement mode terminal.
5	MD0		
6	NMI	I	BATT / ACC detector terminal.
7	STBY	I	Stand by mode terminal.
8	V_{CC}	—	Power supply terminal.
9	SCKO	O	LOW output.
10	RDS MON	I	RDS monitor input.
11	RDS MON	O	RDS monitor output.
12	VSS	—	GND.
13	NC	—	N.C.
14			
15			
16			
17	VOL UP	O	Volume UP output.
18	A_{CC}	—	ACC ON / OFF detector terminal.
19	BATT	—	BATT ON / OFF detector terminal.
20	POWER SW	I	Power SW ON / OFF detector terminal.
21	LCD ON	O	LCD back light.
22	NOSE ON	O	Nose Power control output.
23	RDS CLK	I	RDS clock input.
24	NC	—	N.C.
25			
26			
27			
28			
29	AV_{CC}	—	AD Converter Power supply terminal.
30	NOSE IN	I	Nose IN detector.
31	10 / 11	I	7511R / 7510R Switching terminal.
32	ADJON	I	Port detects neighbor interference of station.
33	M / P	I	Port detects multipath interference of station.
34	S METER	I	Signal meter input.
35	AUDIO IN	I	Audio level monitor terminal.
36	ST / SD	I	ST / SD signal input terminal.
37	NC	—	N.C.
38	AV_{SS}	—	GND.
39	LCD CE	O	LCD CE output.
40	LCD DATA	O	LCD data output.
41	LCD CLK	O	LCD clock output.
42	LCD INH	O	LCD INH control output.
43	KEY IN	I	KEY data input.
44	KEY P / S	O	Parallel / Serial control terminal.
45	ALM	O	Alarm output / and is signal switching terminal.
46	NC	—	N.C.
47	V_{CC}	—	Power supply terminal.
48	PLL CE	O	Communication control signal output.
49	PLL CLK	O	Communication data sync signal output.
50	PLL D-IN	I	Serial data input.

No.	Symbol	I / O	Terminal Description
51	PLL D-OUT	O	Serial data output.
52	LPF SW-1	O	L.P.F. Switching terminal. (SD, S / M)
53	IF MUTE	O	IF MUTE output.
54	LPF SW-2	O	L.P.F. switching terminal. (Radio)
55	ALM SW	O	Alarm signal switching terminal.
56	V_{SS}	—	GND.
57	PS OFF	I	PS OFF input terminal.
58	NC	—	N.C.
59			
60			
61			
62			
63			
64	FM / $\overline{AM}$	O	FM / AM (MW / LW) bands selection terminal.
65	PACK IN	I	Pack in detector.
66	NOR / $\overline{REV}$	I	FF / REW Detect terminal.
67	MTL	O	Metal tape detector.
68	MS	I / O	Music sensor control output.
69	DOLBY B	O	Dolby B control output.
70	DECK MUTE	I	Deck MUTE output terminal.
71	PWR IC ON	O	Power IC standby control output.
72	TAPE / $\overline{RAD}$	O	TAPE / RADIO Switching control.
73	V_{SS}	—	GND.
74	TEST	I	Test input terminal.
75	MUTE	O	Audio MUTE output terminal.
76	PWR CONT	O	Power control output terminal.
77	RDS DATA	I	RDS data input.
78	NC	—	N.C.
79			
80			

LCD Display





Pin No.	com0	com1	com2	Pin No.	com0	com1	com2	Pin No.	com0	com1	com2	Pin No.	com0	com1	com2
1	com0			20	6f	6n	6e	39			com2	58	5a	5g	5m
2	NC	NC	NC	21		6d	DX	40		com1		59	4i	4h. 4l	4k
3	NC	NC	NC	22	6b	6j	6c	41	com0			60	4a	4g	4m
4	NC	NC	NC	23	7f	7n	7e	42	9i	9h. 9l	9k	61	4f	4n	4e
5	NC	NC	NC	24		7d		43	9a	9g	9m	62	3i	3h. 3l	3k
6	NC	NC	NC	25	7b	7j	7c	44	NC	NC	NC	63	3a	3g	3m
7	NC	NC	NC	26	8f	8n	8e	45	NC	NC	NC	64	2b	2j	2c
8	NC	NC	NC	27		8d	M.S.	46	NC	NC	NC	65	2i	2h. 2l	2k
9		com1		28	8b	8j	8c	47	NC	NC	NC	66	NC	NC	NC
10			com2	29	9f	9n	9e	48	NC	NC	NC	67	NC	NC	NC
11		2d	T.INFO	30		9d	ST	49	NC	NC	NC	68	NC	NC	NC
12	3f	3n	3e	31	9b	9j	9c	50	8i	8h. 8l	8k	69	NC	NC	NC
13		3d		32			MTL	51	8a	8g	8m	70	NC	NC	NC
14	3b	3j	3c	33	NC	NC	NC	52	O	P	7Q	71	NC	NC	NC
15		4d	TP	34	NC	NC	NC	53	7i	7h. 7l	7k	72	2a	2g	2m
16	4b	4j	4c	35	NC	NC	NC	54	7a	7g	7m	73	2f	2n	2e
17	5f	5n	5e	36	NC	NC	NC	55	6i	6h. 6l	6k	74	1b		A.P.I
18		5d	DX	37	NC	NC	NC	56	6a	6g	6m	75	1a	1g	1c
19	5b	5j	5c	38	NC	NC	NC	57	5i	5h. 5l	5k	76	1f	1e	1d

Adjustment Procedures

1 AM SECTION

(1) Dummy Antenna Circuit

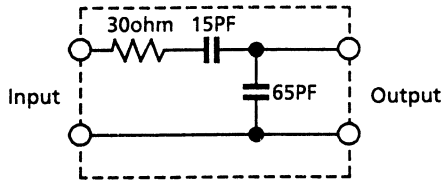


Figure 6

(2) Connections

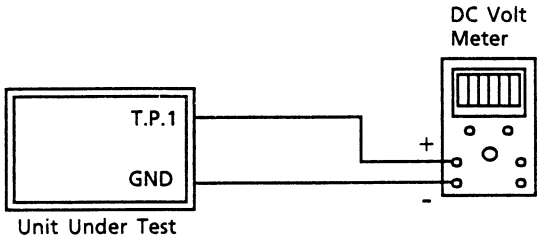


Figure 7

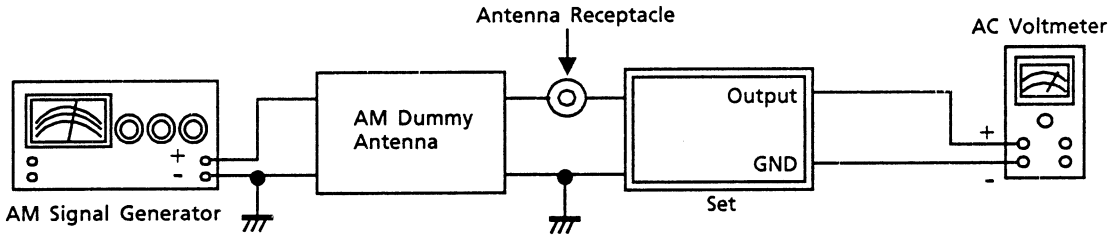


Figure 8

(3) Control Settings

Power Switch ..... ON
Fader Control ..... Front Position
Balance Control ..... Center Position
Treble / Bass Control ..... Center Position
Band Switch ..... AM
Others ..... OFF

(4) Adjustment Procedures

Step	Description	Connection	Signal Generator	Dial Control	Test Point	Adjustment
1	VT Adjustment	Figure 7	—	603kHz	T.P.1	Adjust L013 to 2±0.3V
2	IFT Adjustment	Figure 8	603kHz, 24dB	603kHz	Speaker output	Adjust L005, L007 for Maximum output.
3	Tracking Adjustment	Figure 8	603kHz, 24dB	603kHz	Speaker output	Adjust L003, L004 for Maximum output.

2 FM SECTION

(1) Dummy Antenna Circuit

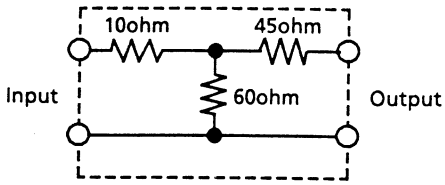


Figure 9

(2) Connections

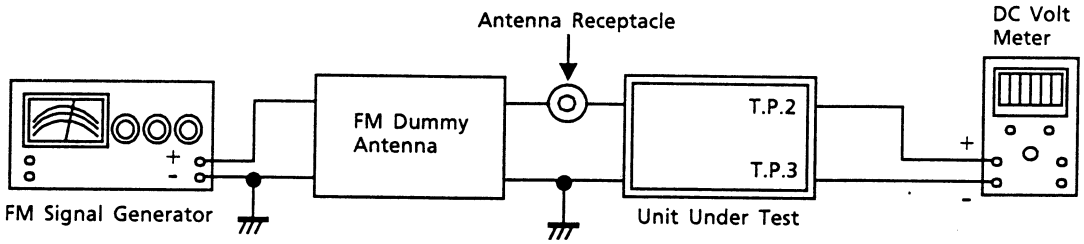


Figure 10

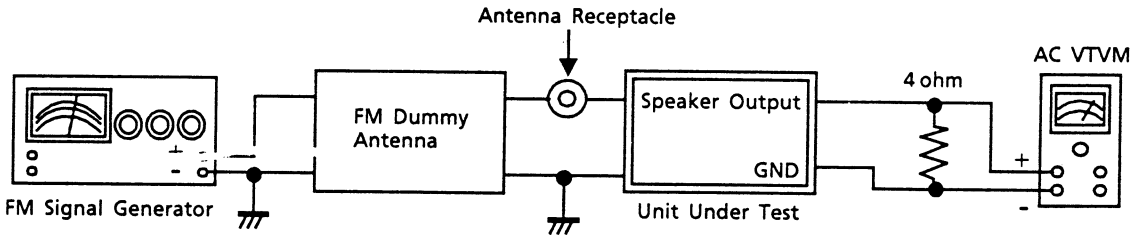


Figure 11

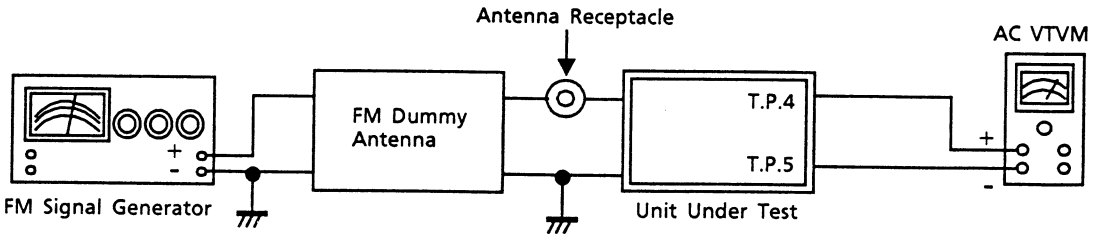


Figure 12

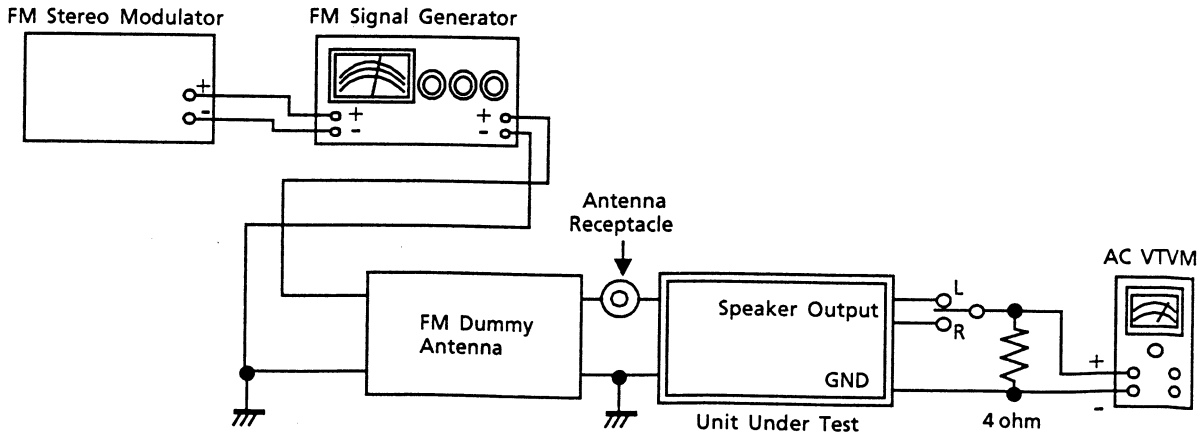
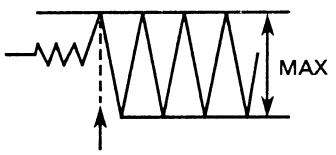


Figure 13

(3) Control Settings

Power Switch ..... ON
Fader Control ..... Front Position
Balance Control ..... Center Position
Treble / Bass Control ..... Center Position
Band Switch ..... FM
Others ..... OFF

(4) Adjustment Procedures

Step	Description		Connection	Signal Generator	Dial Control	Test Point	Adjustment
1	IF Adjustment		Figure 10	98.1MHz, 72dB (Mod. OFF)	98.1MHz	T.P.2 T.P.3	Adjust L006 to 0±15mV.
2	Noise Level Adjustment	(1)	Figure 11	98.1MHz, 72dB (Mod. 400Hz)	98.1MHz	Speaker Output	Adjust MAIN VOLUME to obtain 2V output. This value is 0dB.
		(2)	Figure 11	98.1MHz, - 19dB (Mod. 400Hz)	98.1MHz	Speaker Output	Adjust VR004 to -25±5dB output at SG level minimum.
3	Seek Stop Adjustment		Figure 12	98.1MHz, 30dB (Mod. 400Hz)	98.1MHz	T.P.4 T.P.5	Adjust VR001 for the waveform changing to maximum output. Figure : Waveform of T;P.4 output.  Stop the adjust VR001 at this time.
4	Stereo Separation Adjustment (Lch)		Figure 13	98.1MHz, 72dB (Stereo 1kHz, Lch only)	98.1MHz	Speaker Output	Adjust VR002 for Rch output to be minimum and confirm Lch and Rch output level difference is more than 25dB.
5	Stereo Blend Adjustment (Lch)		Figure 13	98.1MHz, 46dB (Stereo 1kHz, Lch only)	98.1MHz	Speaker Output	Adjust VR003 for Lch and Rch output level difference to be 10±3dB.
6	Stereo Separation Adjustment (Rch)		Figure 13	98.1MHz, 72dB (Stereo 1kHz, Rch only)	98.1MHz	Speaker Output	Proceed same adjustment under step 4 by alternating Lch and Rch.
7	Stereo Blend Adjustment (Rch)		Figure 13	98.1MHz, 46dB (Stereo 1kHz, Rch only)	98.1MHz	Speaker Output	Proceed same adjustment under step 5.

3 TAPE PLAYER SECTION

(1) Connectors

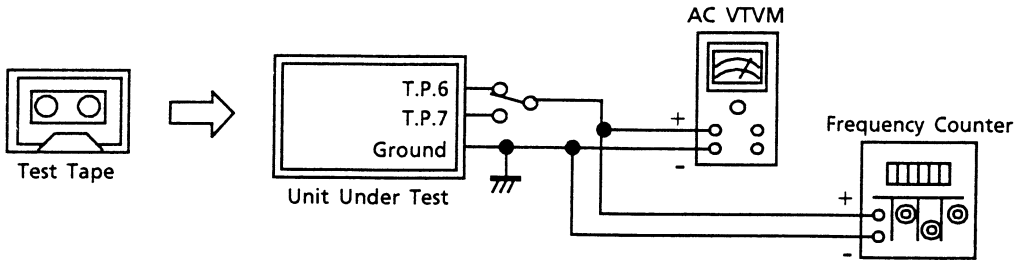


Figure 14

(2) Adjustment Procedures

Step	Description	Test Tape	Connection	Dial Control	Adjustment Point	Adjustment
1	Head Azimujth Adjustment	MTT-114NB (14kHz)	Figure 14	T.P.6 (Lch) T.P.7 (Rch)	Head Azimuth Adjustment Screws (Figure 15)	Adjust for Max. and same level output at Normal and Reverse positions.
2	Dolby Level Adjustment	MTT-150 (400Hz)	Figure 14	T.P.6 (Lch) T.P.7 (Rch)	VR301 (Lch) VR302 (Rch)	Adjust for 245mV±2dB at T.P.6 (Lch) and T.P.7 (Rch).
3	Tape Speed Adjustment	MTT-111N (3kHz)	Figure 14	T.P.6 (Lch) or T.P.7 (Rch)	Tape Sppeed Adjustment (Figure 16)	Adjust for 2,970 to 3,090Hz at T.P.6 (T.P.7).

Adjustment Locations

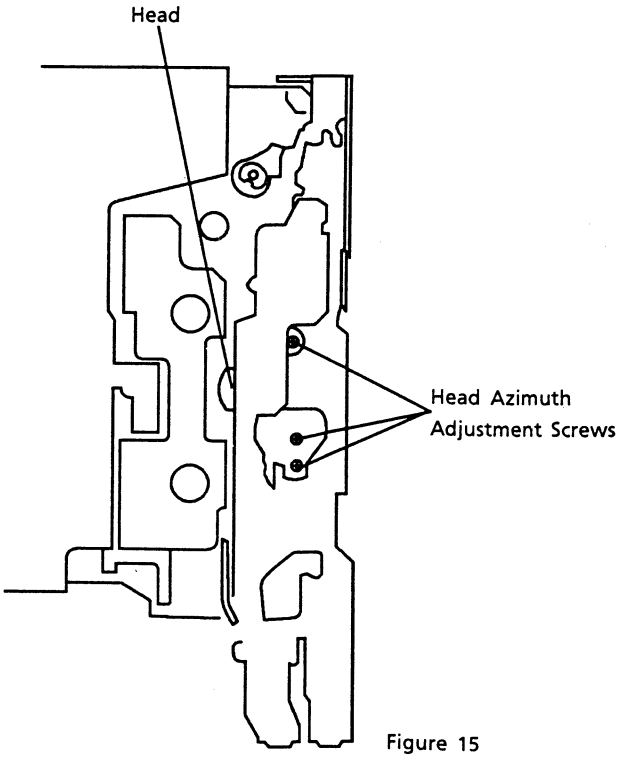


Figure 15

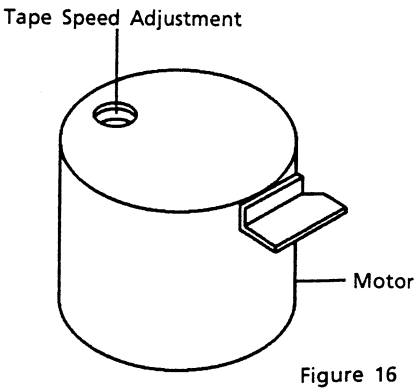
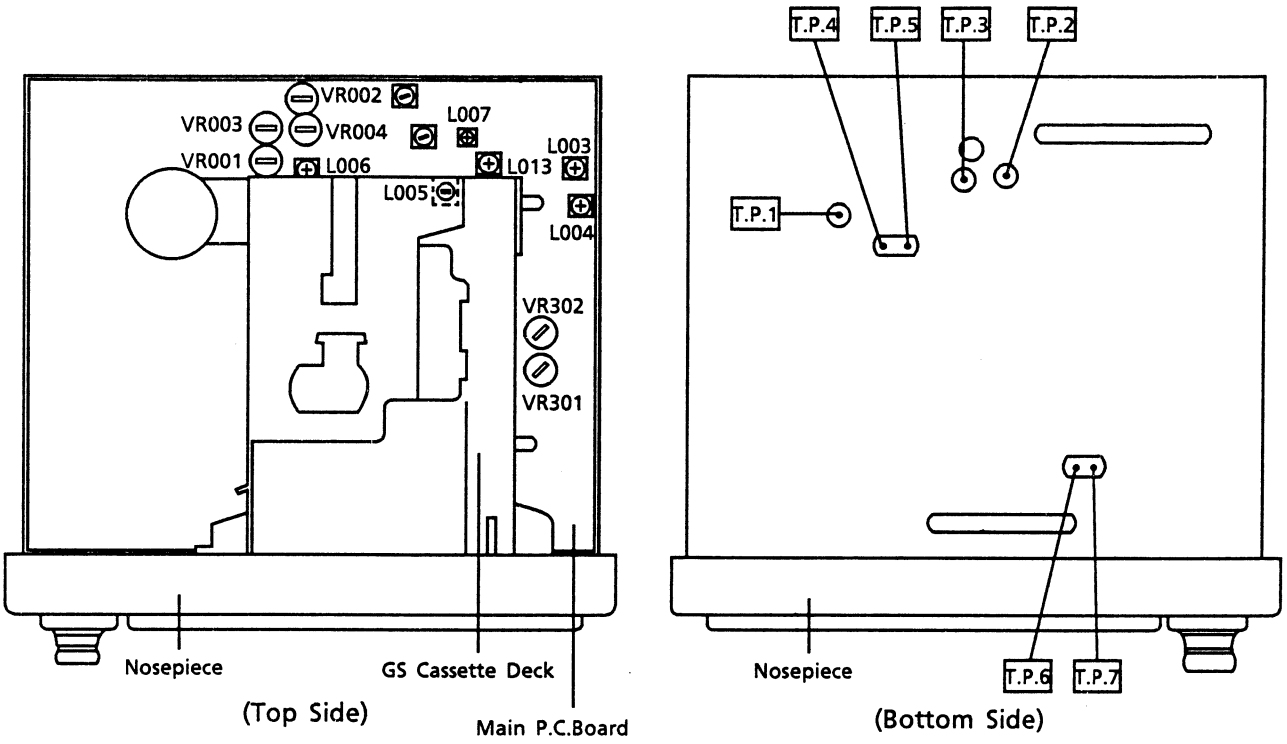
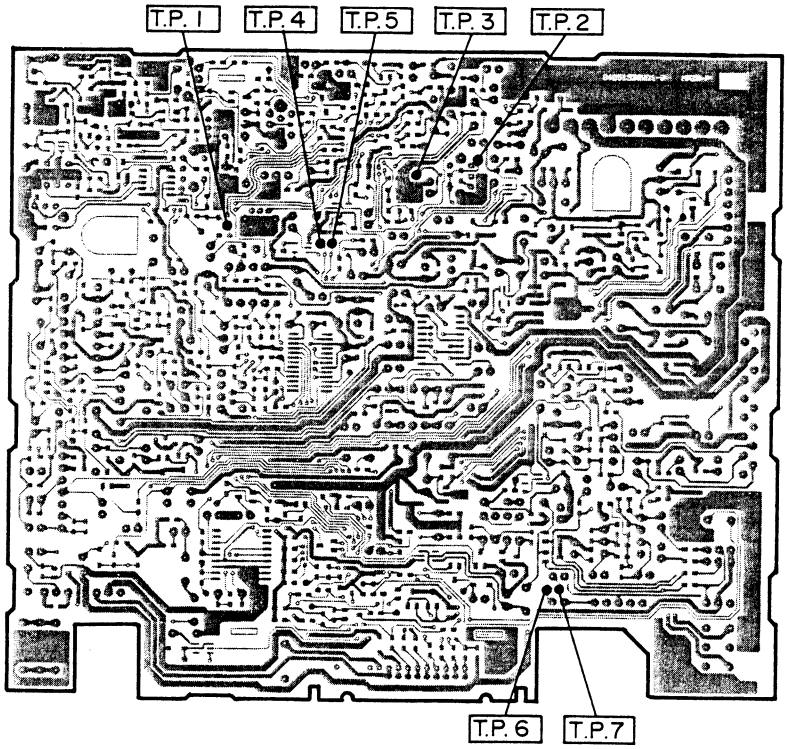


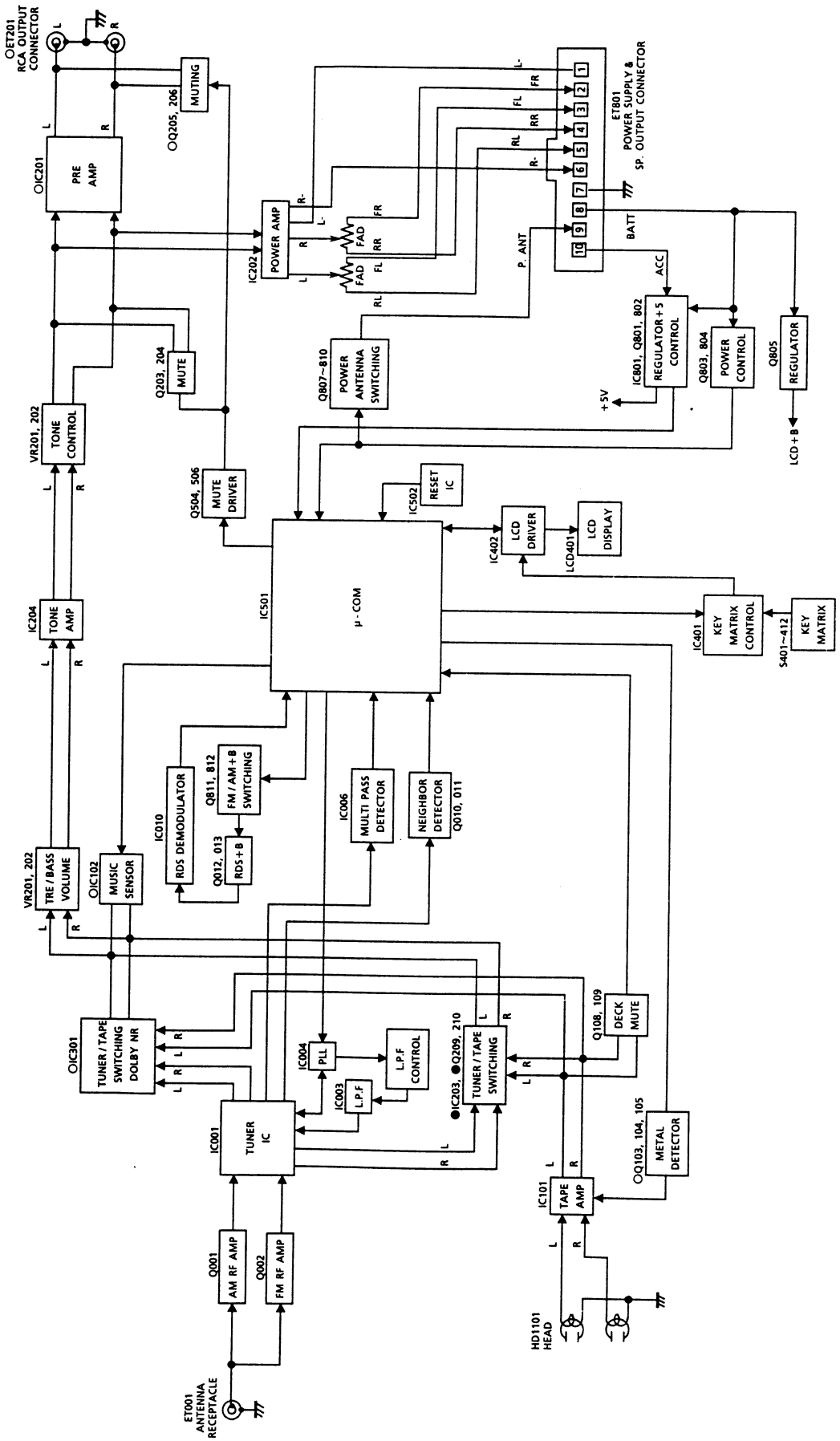
Figure 16





Main P.C. Board (Foil Side)

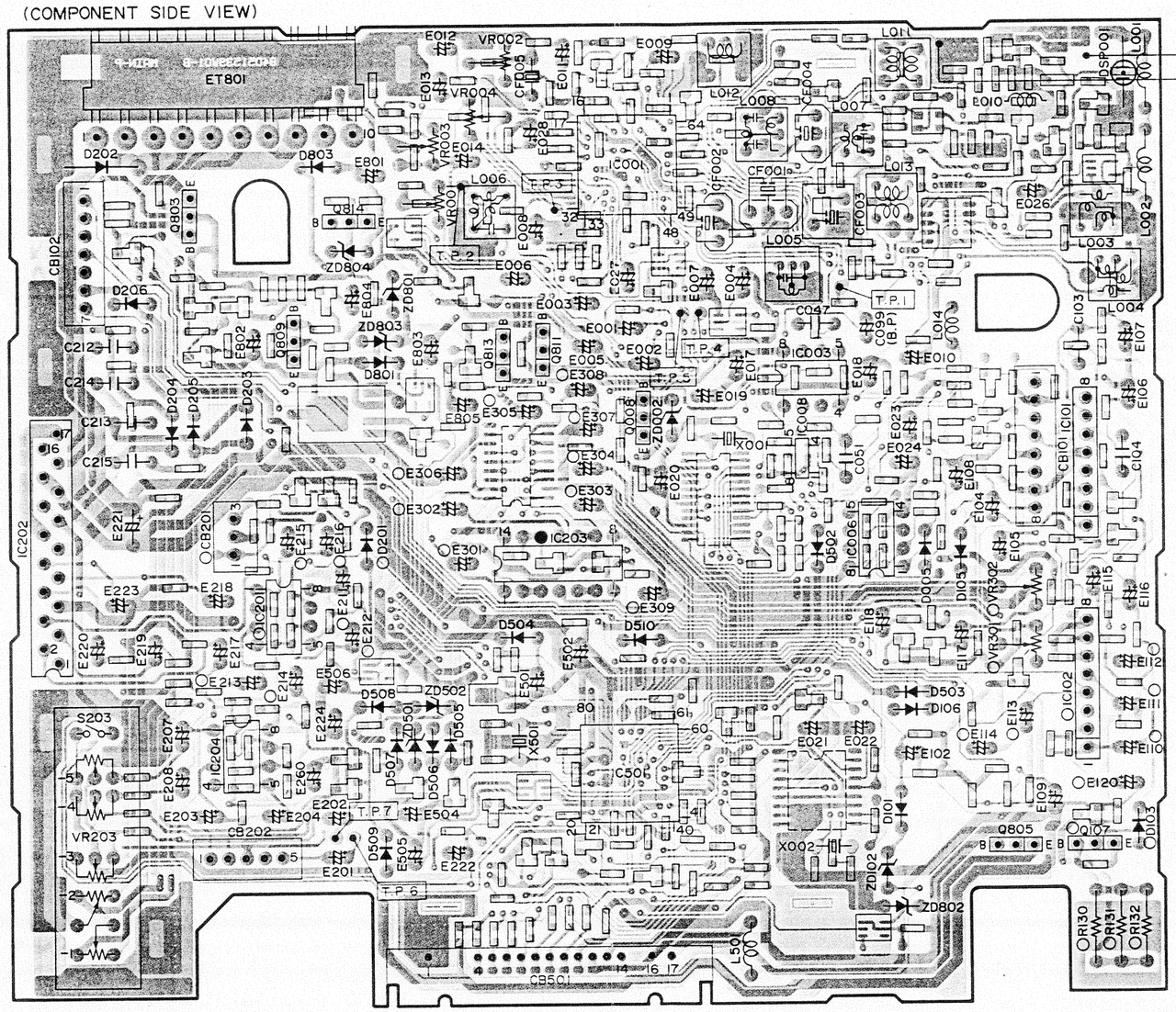
Block Diagram



Note : ○ : For 7511R Model Only,
● : For 7510R Model Only,
Others : Common.

Parts Layout on P. C. Boards and Wiring Diagram (1/2)

MAIN P.C.BOARD
(COMPONENT SIDE VIEW)



POWER SWITCH
(S1503)

ASSY MOTOR
(MI501)

VIO
BLU
GRN
YEL
ORG
RED
BRN

To CB102

From GS CONTROL(2)
P.C.BOARD

ORCA OUTPUT
CONNECTOR
(ET201)

BLK RED SHLD
BLK WHT SHLD

To CB201

WHT
SHLD
BLK

BRN
RED
ORG
YEL
BLU
RED
WHT
SHLD
GRY

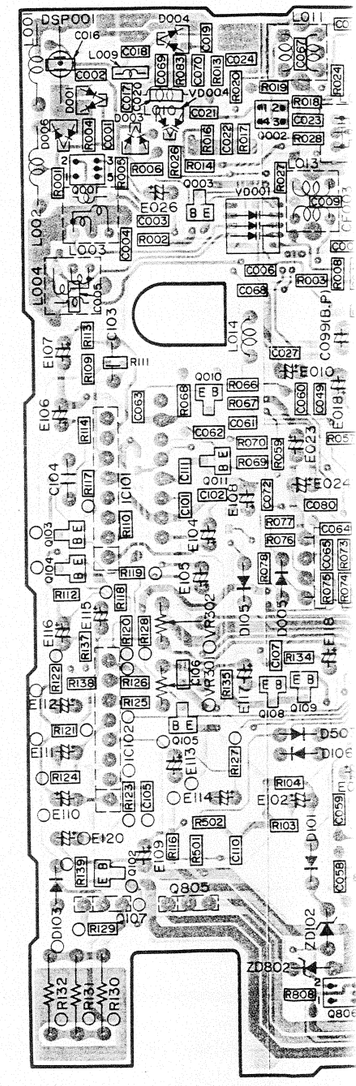
To CB101

From GS CONTROL(1)
P.C.BOARD

To CB202
BRN WHT(1) WHT(2) WHT(3) WHT(4)
From TONE P.C.BOARD
(CB203)

To CB501
From FRONT P.C.BOARD
(CH401)

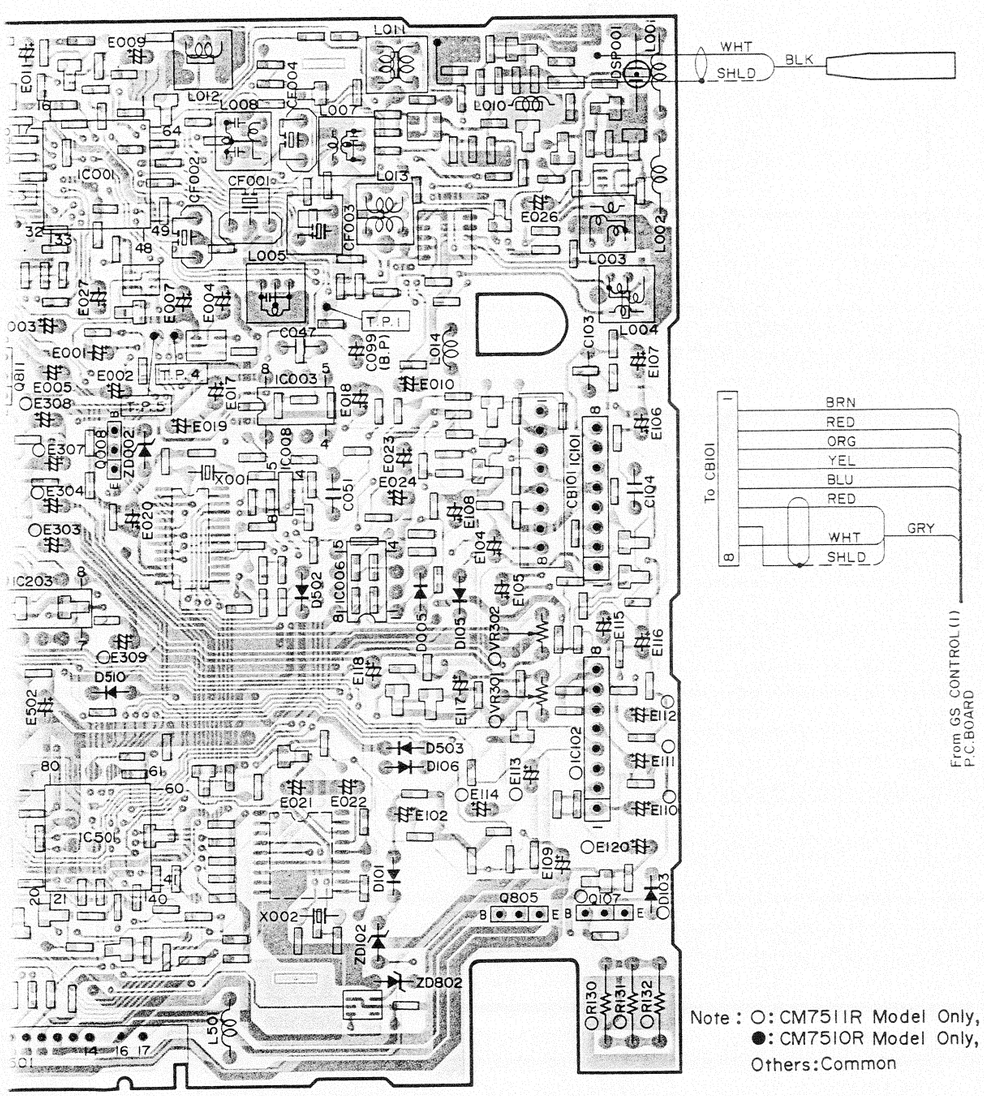
MAIN P.C.BOARD
(FOIL SIDE VIEW)



7511R /
7510R

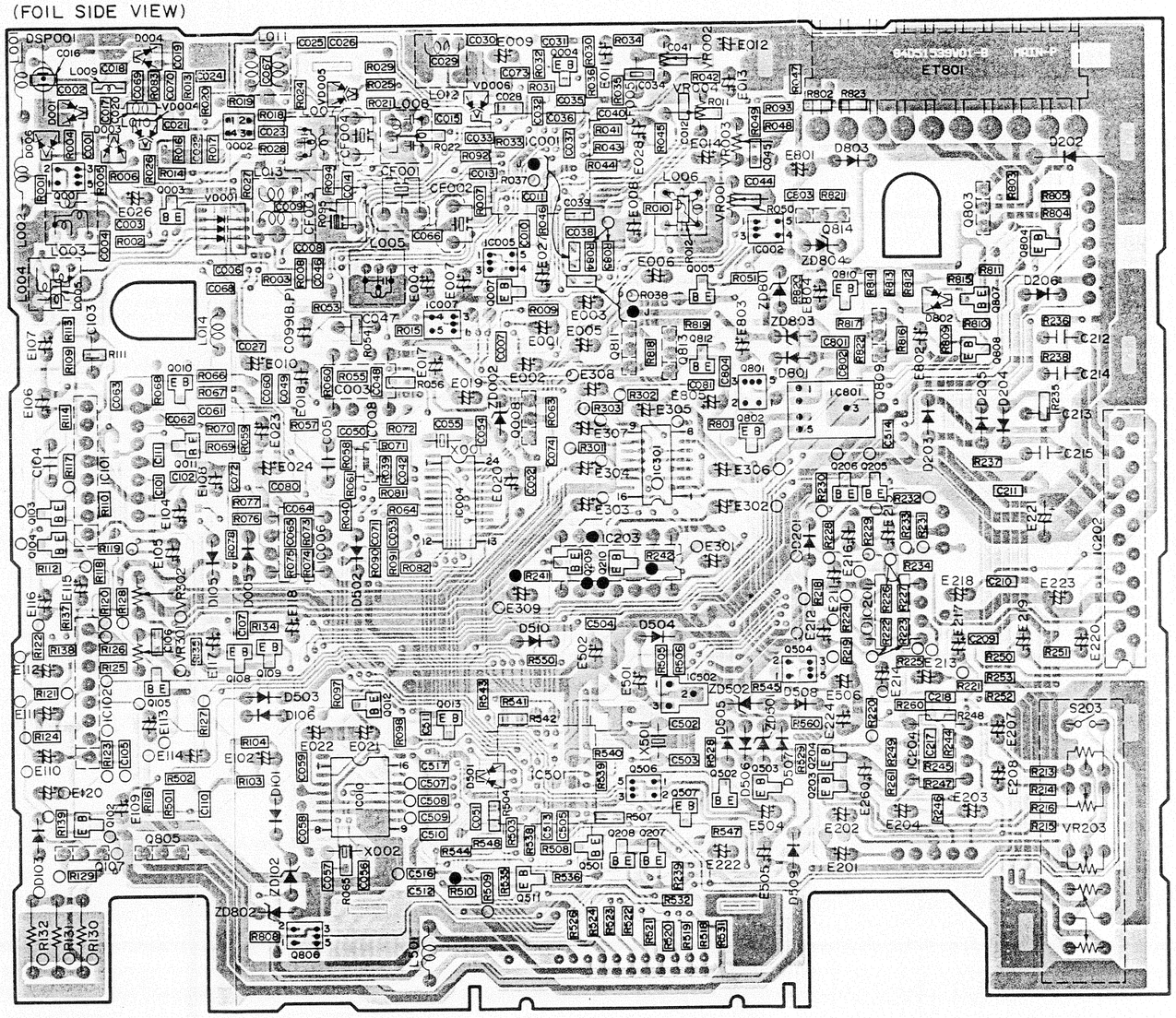
Orange Pattern: Component Side Pattern.
Blue Pattern: Foil Side Pattern.

MAIN P.C.BOARD
(FOIL SIDE VIEW)



Note : ○: CM7511R Model Only,
●: CM7510R Model Only,
Others: Common

501
17
P.C.BOARD
(01)

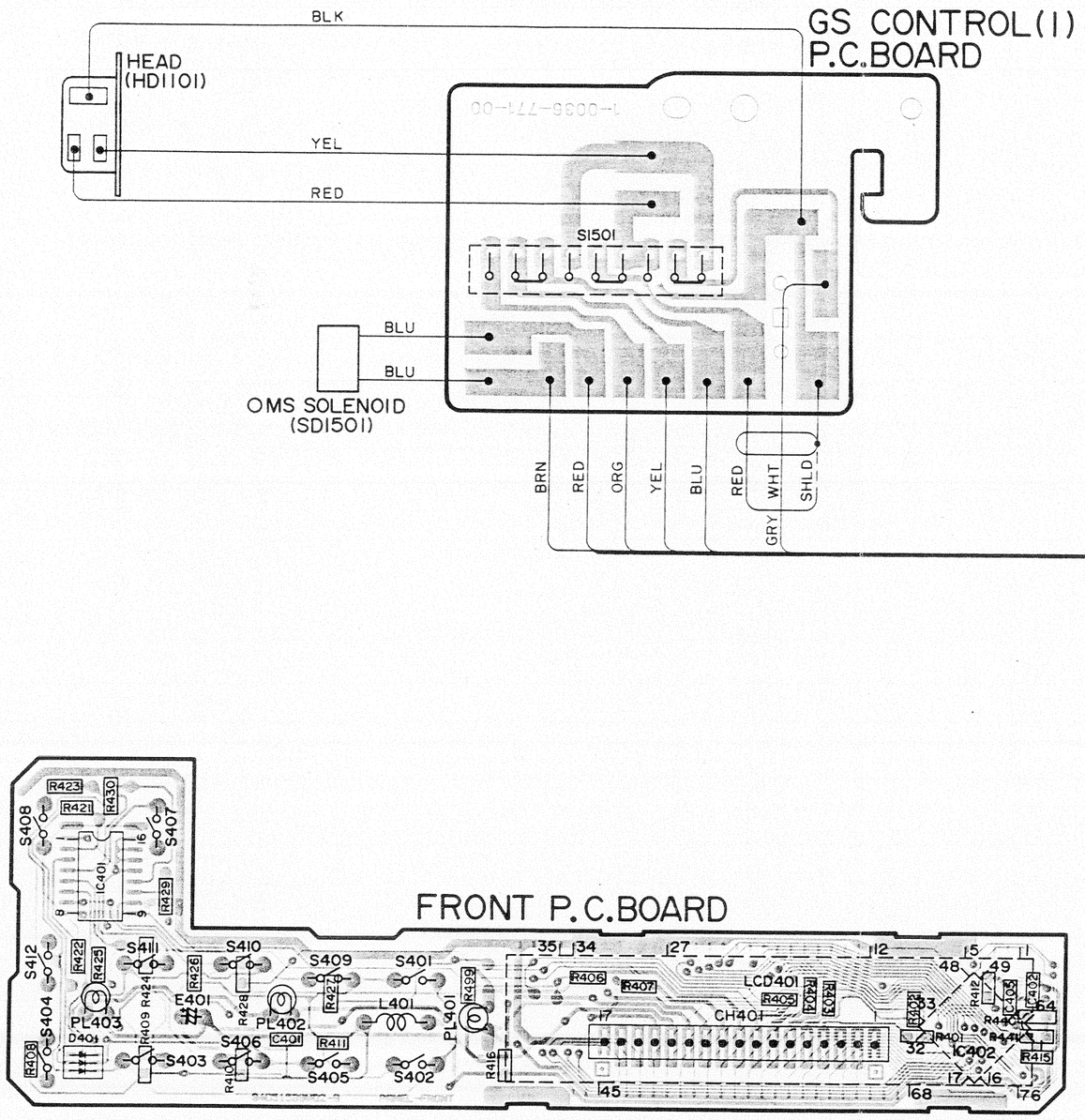


7511R / 7510R

7511R / 7510R

Parts Layout on P. C. Boards and Wiring Diagram (2/2)

All P.C. Boards viewed from foil side.



Note : ○ : CM7511R Model Only,
● : CM7510R Model Only,
Others : Common

7511R / 7510R	7511R / 7510R

Orange Pattern: Component Side Pattern.
Blue Pattern: Foil Side Pattern.

S CONTROL(1)
C.BOARD

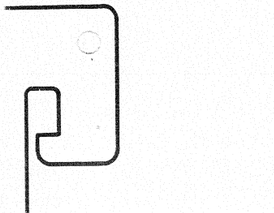
MAIN P.C.BOARD

CB101
8 1

CB102
7 1

CB202
5 1

CB501
17 1



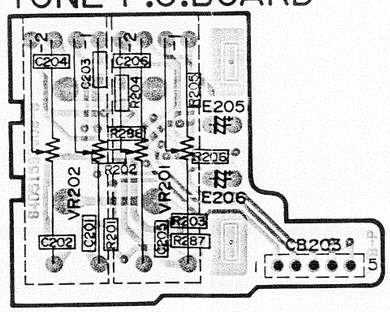
GS CONTROL(2)
P.C.BOARD

From MAIN P.C.BOARD 1

RED

BRN

SI502

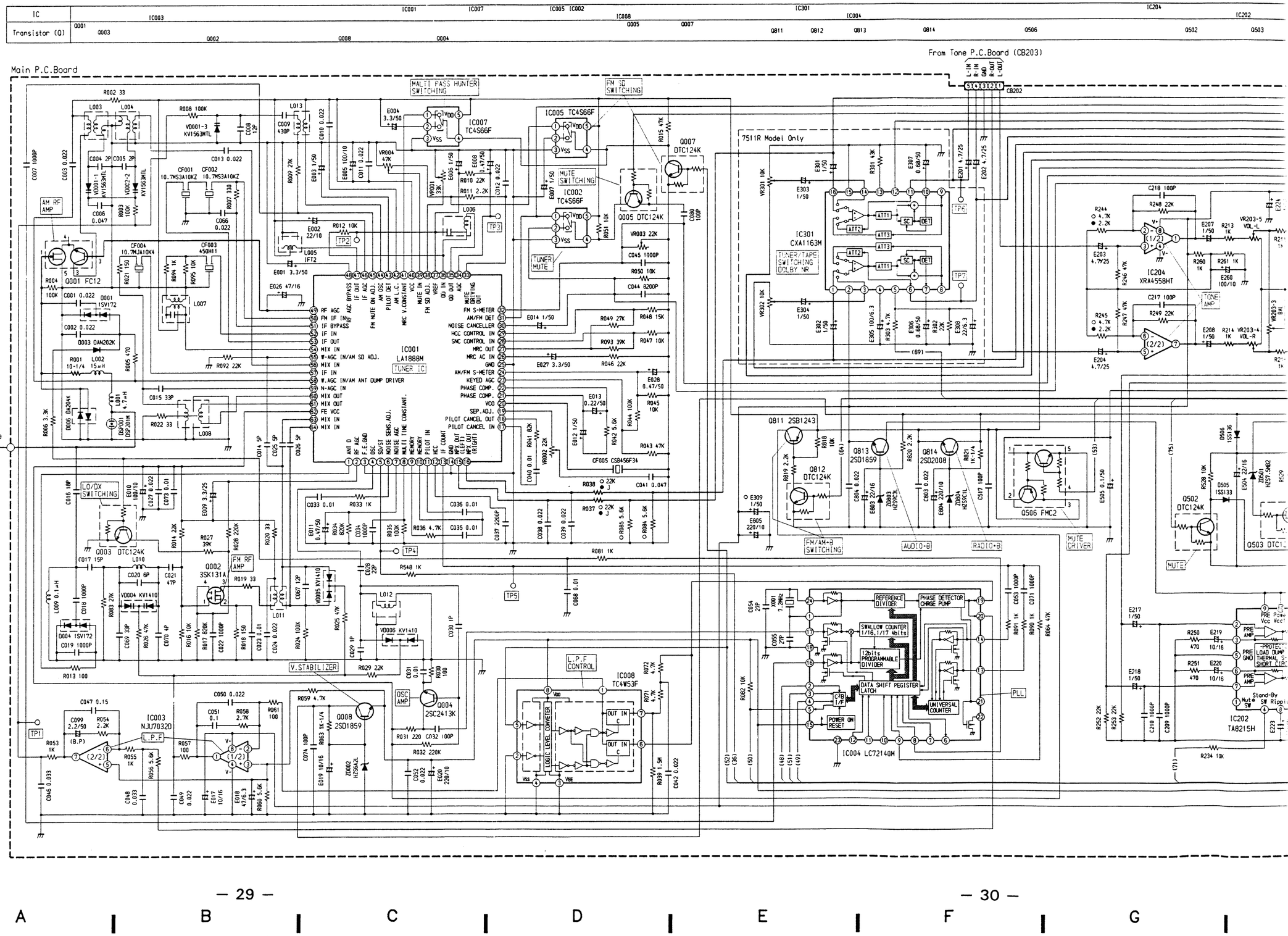


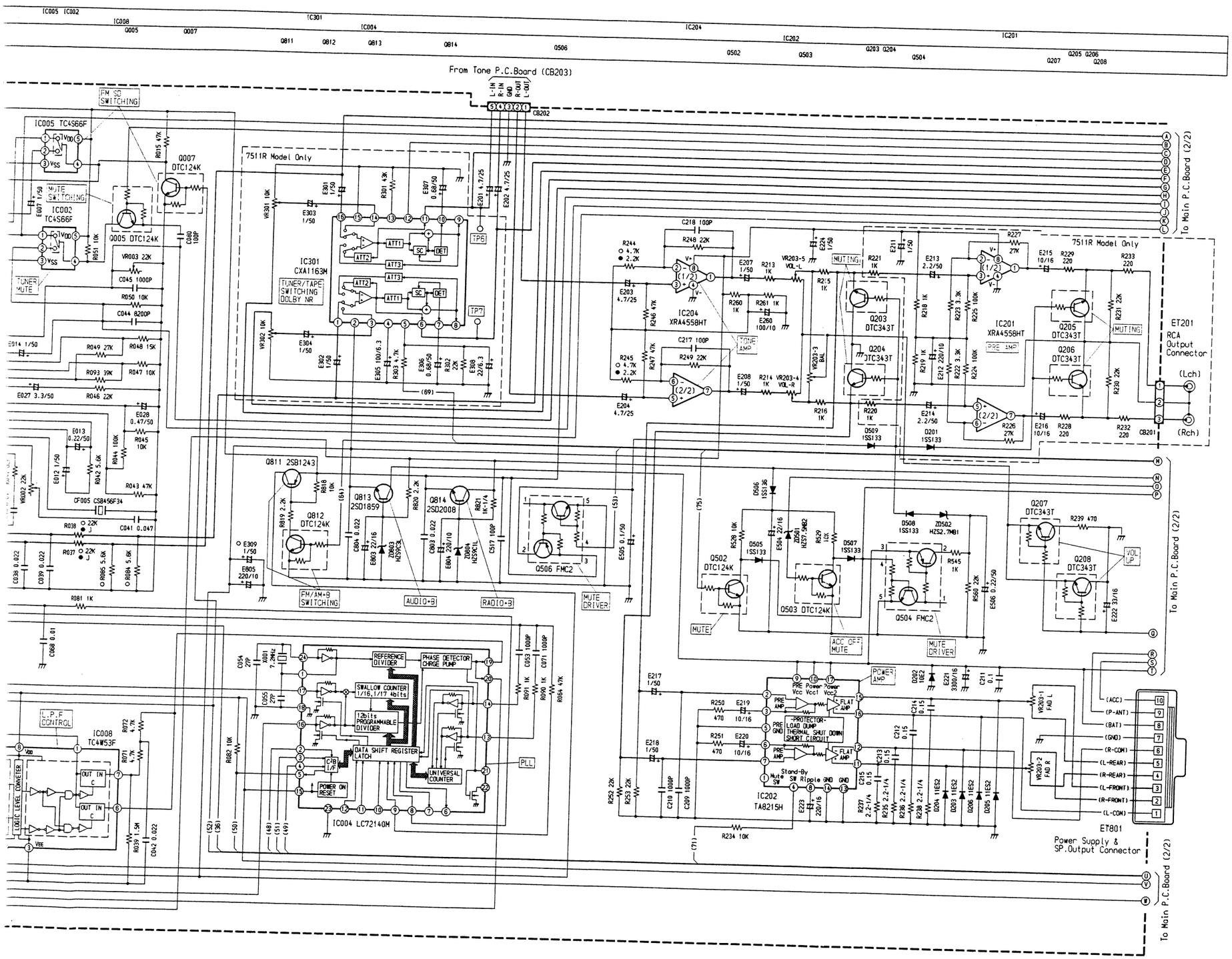
To CB203
1 5
BRN
WHT(1)
WHT(2)
WHT(3)
WHT(4)

E F G H I J K L

7511R / 7510R	7511R / 7510R

Schematic Diagram (1/2)





IC001

1	1.17V	17	4.1V	33	4.3mV	49	6.3mV
2	7.8V	18	1.38V	34	4.15V	50	2.82V
3	0.9mV	19	2.19V	35	4.17V	51	2.82V
4	2.3V	20	3.87V	36	4.18V	52	0.09V
5	4.9V	21	3.54V	37	4.18V	53	4.46V
6	2.24V	22	3.54V	38	2.29V	54	8.74V
7	0.67V	23	2V	39	3.9mV	55	0.8mV
8	0.3mV	24	5.41V	40	8.74V	56	0.03V
9	4.11V	25	1mV	41	6.03V	57	2.59V
10	4.13V	26	5.9V	42	0.01V	58	0.01V
11	4.85V	27	3.36V	43	3.54V	59	0.03V
12	2.87V	28	1.2V	44	8.74V	60	8.53V
13	7.1mV	29	2.16V	45	1.26V	61	8.54V
14	0.4mV	30	4.07V	46	4.2mV	62	8.7V
15	3.17V	31	3.99V	47	8.74V	63	1.9V
16	3.15V	32	3.55	48	0.48	64	1.9V

IC002

1	8.74V
2	8.75V
3	0V
4	3.96V
5	4V

IC003

1	3.93V
2	2.44V
3	2.78V
4	1mV
5	2.78V
6	2.58V
7	3.35V
8	9.05V

IC004

1	2.5V	13	1.7mV
2	1.6mV	14	0.01V
3	1.5mV	15	4.91V
4	1.5mV	16	2.4mV
5	0.02V	17	2.58V
6	NC	18	1.2mV
7	NC	19	2.42V
8	2.3mV	20	2.56V
9	2.3mV	21	NC
10	NC	22	NC
11	NC	23	1.2mV
12	NC	24	2.26V

IC005

1	3.5V
2	0.3V
3	0V
4	0V
5	0V

IC007

1	2.7V
2	2.8V
3	0V
4	8.7V
5	8.6V

IC008

1	2.6V
2	0V
3	0V
4	0V
5	4.92V
6	2.65V
7	2.67V
8	0V

○IC201

1	4.57V
2	4.54V
3	4.52V
4	0V
5	4.52V
6	4.54V
7	4.58V
8	9.05V

IC202

1	0.01V
2	5.01V
3	5.03V
4	3.8V
5	1.1mV
6	5.03V
7	5V
8	5.02V
9	14.35V
10	14.35V
11	6.01V
12	6.05V
13	0.7mV
14	0.7mV
15	6.01V
16	6.04V
17	14.35V

IC204

1	4.57V
2	4.54V
3	4.52V
4	0.9mV
5	4.52V
6	4.54V
7	4.58V
8	9.05V

○IC301

1	4.6V	9	NC
2	9V	10	0V
3	4.6V	11	3V
4	4.6V	12	4.8V
5	4V/0V	13	0V
6	4.7V	14	4.7V
7	0V	15	0V
8	NC	16	0V

	E	C	B		E	C	B
Q003	1mV	7.61V	1.2mV	Q207	1mV	0.9mV	2.65V
Q004	0.38V	7.87V	1.08V	Q208	1mV	0.8mV	2.65V
Q005	0.4mV	8.74V	1.4mV	Q502	0.9mV	2.8mV	4.93V
Q007	0.3mV	0.3mV	0.3mV	Q503	0V	0V	5.5V
Q008	4.91V	14.31V	5.51V	Q811	8.71V	8.68V	8.07V
Q203	1mV	0.8mV	0V	Q812	2mV	0.03V	4.95V
Q204	1mV	0.8mV	0V	Q813	9.03V	14.34V	9.65V
Q205	0V	0V	5.7V	Q814	8.71V	14.31V	9.31V
Q206	0V	0V	5.7V				

	1	2	3	4	5
Q001	1mV	1mV	6mV	0.9mV	8.75V
Q504	0.02V	14.27V	14.34V	0.8mV	0.8V
Q506	0V	0V	8.7V	8.7V	0V

	1	2	3	4
Q002	7.61V	2.54V	7.64V	2.75V

[Measuring Conditions]

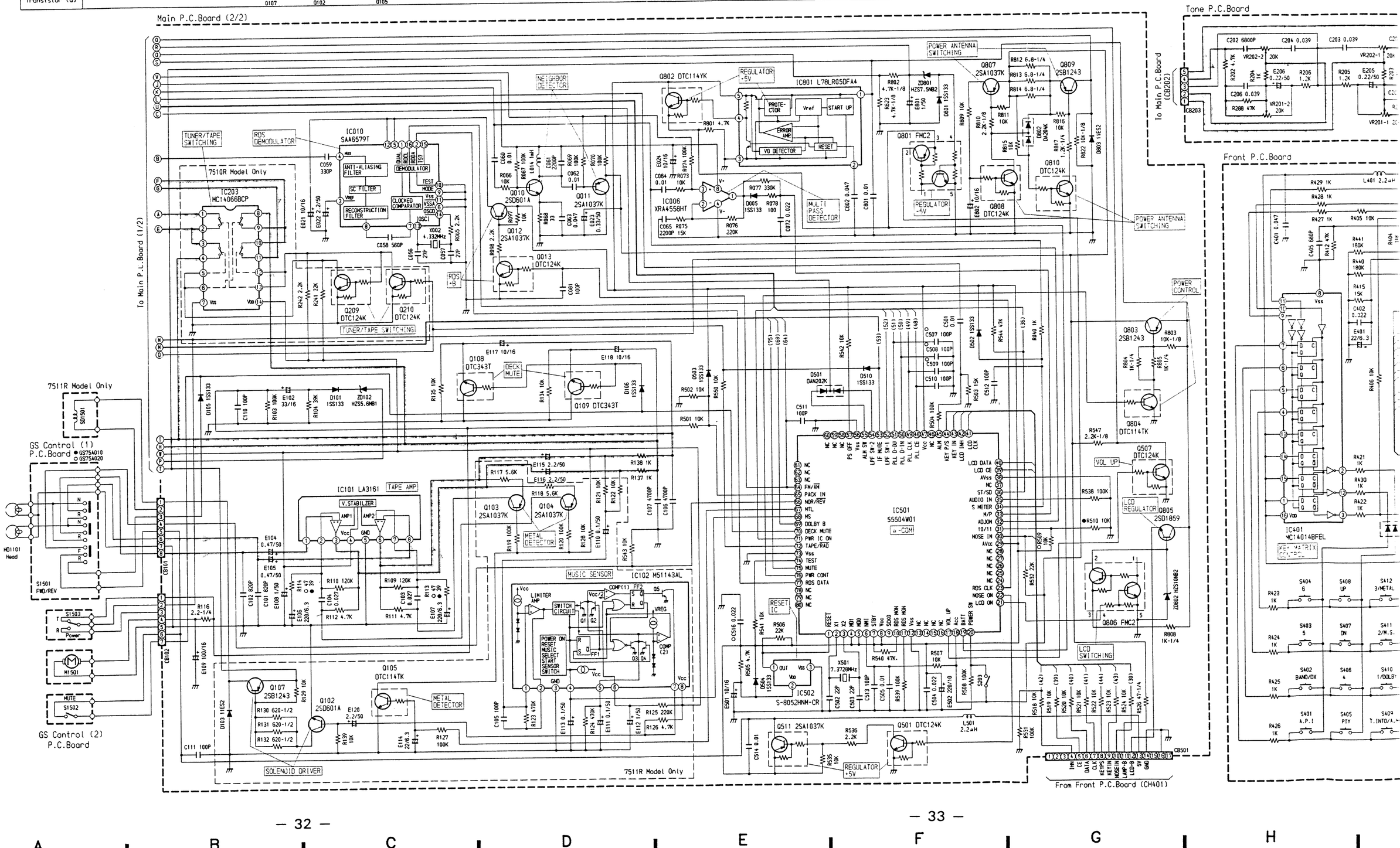
1. Power Supply Voltage : DC14.4V
2. Measuring Meter : Digital Multi Meter
3. Measuring Reference Point : Between Ground
4. Measuring Condition : No Signal Input
   - FM 98.1MHz
   - MW 999Hz
   - TAPE ..... Blank

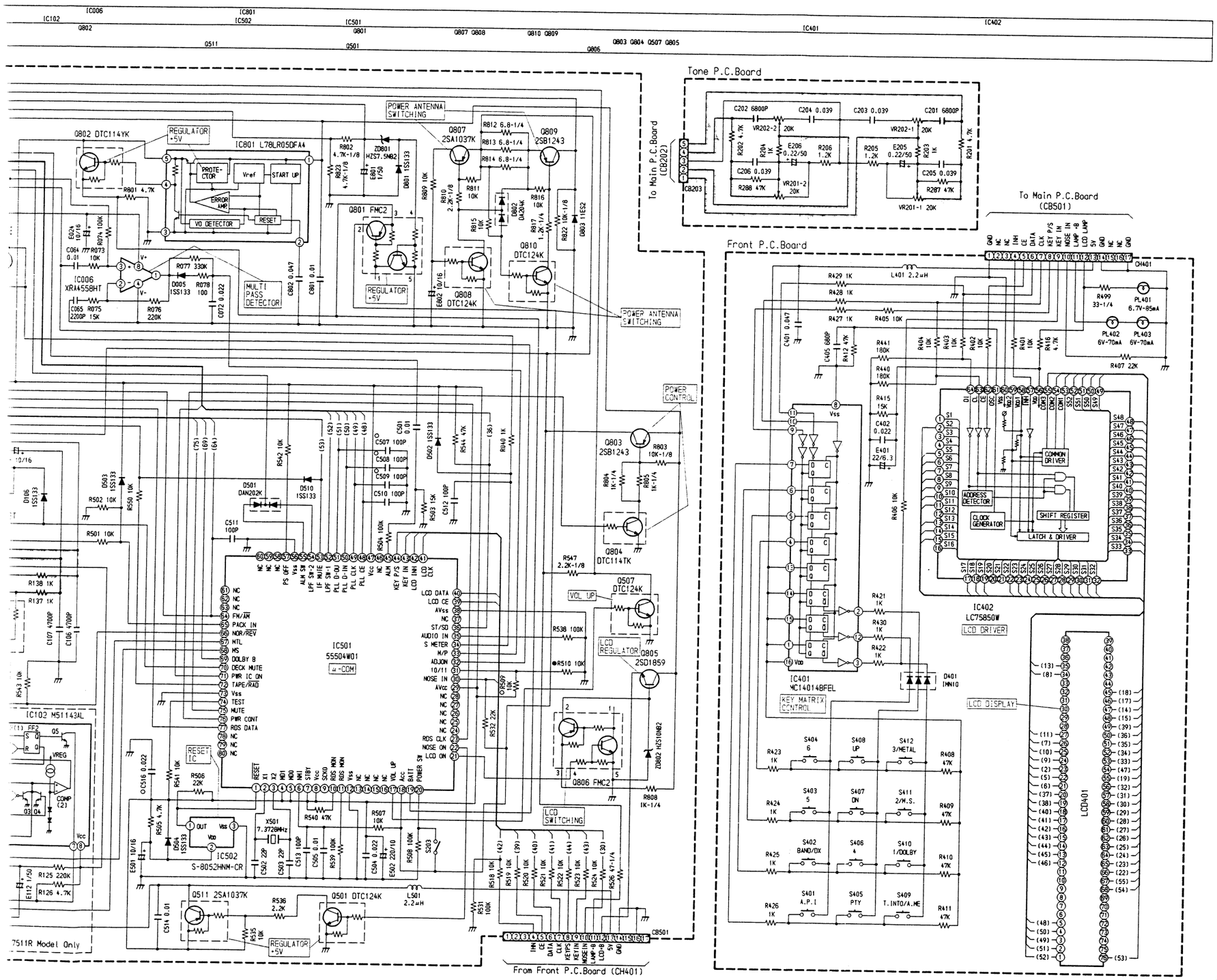
Note : ○ : For 7511R Model Only, ● : For 7510R Model Only, Others : Common.

7511R / 7510R

Schematic Diagram (2/2)

IC	IC203	IC010 IC101	IC006 IC102	IC801 IC502	IC501	IC401
Transistor (Q)	Q107	Q102 Q209 Q210 Q105	Q012 Q010 Q013 Q108 Q103 Q104 Q011 Q109	Q802 Q511	Q801 Q501	Q807 Q808 Q810 Q809 Q803 Q804 Q507 Q805 Q806





IC006

1	4.91V
2	4.92V
3	4.87V
4	2mV
5	0.97V
6	0.91V
7	8.22V
8	8.74V

IC010

1	NC
2	0.12V
3	0.05V
4	0.1V
5	0.22V
6	1.7mV
7	0.02V
8	0.02V
9	1.7mV
10	1.7mV
11	1.7mV
12	0.01V
13	0.01V
14	0.01V
15	NC
16	0.01V

IC101

1	1.27V
2	0.75V
3	4.55V
4	9.05V
5	0.6mV
6	4.51V
7	0.75V
8	1.26V

●IC203

1	3.17V
2	3.17V
3	3.17V
4	0.04V
5	8.8mV
6	8.8mV
7	0.7mV
8	0V
9	3.15V
10	3.15V
11	3.15V
12	7.5V
13	7.5V
14	9.05V

IC401

1	0V
2	4.9V
3	4.9V
4	4.9V
5	4.9V
6	4.9V
7	4.9V
8	0V
9	0V
10	2V
11	2V
12	4.9V
13	0V
14	0V
15	5V
16	5V

IC502

1	4.97V
2	4.97V
3	0V

○IC102

1	1.4V
2	1.4V
3	0V
4	1.4V
5	0V
6	0V
7	0V
8	8.97V

IC801

1	15.35V
2	5.68V
3	4.77V
4	4.97V

IC402

1	NC	17	2.3V	33	2.3V	49	2.3V
2	2.3V	18	2.3V	34	2.3V	50	2.3V
3	NC	19	2.3V	35	2.3V	51	2.3V
4	NC	20	NC	36	2.3V	52	2.3V
5	2.3V	21	NC	37	2.3V	53	2.3V
6	2.3V	22	2.3V	38	2.3V	54	2.3V
7	2.3V	23	2.3V	39	2.3V	55	2.3V
8	2.3V	24	2.3V	40	2.3V	56	5V
9	2.3V	25	2.3V	41	2.3V	57	4.97V
10	2.3V	26	2.3V	42	2.3V	58	NC
11	2.3V	27	2.3V	43	2.3V	59	NC
12	NC	28	2.3V	44	2.3V	60	0V
13	2.3V	29	2.3V	45	2.3V	61	3.46V
14	2.3V	30	2.3V	46	2.3V	62	2V
15	2.3V	31	2.3V	47	2.3V	63	0V
16	NC	32	2.3V	48	2.3V	64	2V

IC501

1	Reset	21	4.96V	41	1.7V	61	1.4mV
2	2.24V	22	4.96V	42	4.93V	62	1.4mV
3	2.16V	23	0.03V	43	2.9V	63	1.4mV
4	4.97V	24	0.01V	44	0.18V	64	4.95V
5	4.97V	25	0.01V	45	0.01V	65	4.7mV
6	3.98V	26	0.01V	46	0.01V	66	1.8mV
7	4.97V	27	0.01V	47	4.93V	67	2.5mV
8	4.97V	28	0.01V	48	1.6mV	68	4.95V
9	0.01V	29	4.97V	49	1.6mV	69	4.95V
10	4.95V	30	1.94V	50	0.02V	70	4.35V
11	4.96V	31	4.9V	51	1.5mV	71	4.94V
12	0.01V	32	4.85V	52	4.96V	72	2mV
13	0.01V	33	4.73V	53	1.3mV	73	1.1mV
14	2.44V	34	3.51V	54	1.2mV	74	4.95V
15	0.01V	35	1.4mV	55	1.1mV	75	4.93V
16	0.01V	36	4.89V	56	1.1mV	76	4.9V
17	4.89V	37	0.03V	57	4.95V	77	1.7mV
18	3.98V	38	1.1mV	58	1.3mV	78	0.08V
19	4V	39	1.8V	59	1.3mV	79	6.7mV
20	3.98V	40	2.5V	60	1.3mV	80	7.1mV

	E	C	B		E	C	B
Q010	0.36V	8.28V	0.99V	●Q210	0.6mV	7.5V	2.1mV
Q011	4.87V	1.9mV	4.87V	Q501	0.9mV	0.02V	1.5mV
Q012	4.9V	4.9V	4.2V	Q507	0V	7.8V	0V
Q013	0V	0V	4.9V	Q511	4.97V	4.97V	0.01V
Q103	3.2V	3.2V	8.9V	Q802	4V	0.01V	4.77V
Q104	3V	3.1V	8.9V	Q803	14.35V	14.31V	13.63V
Q105	0V	9V	0V	Q804	0.5mV	0.13V	0.01V
○Q102	1.5mV	14.32V	1.5mV	Q805	9.3V	14.34V	9.91V
Q107	14.34V	0.05V	14.32V	Q807	14.31V	1mV	14.3V
Q108	0.83V	1.8mV	1.7mV	Q808	0.6mV	14.3V	1mV
Q109	2.8V	1.8mV	1.7mV	Q809	14.29V	14.29V	13.65V
●Q209	0.7mV	8.8mV	7.5V	Q810	0.5mV	0.03V	9.82V

	1	2	3	4	5
Q801	0.01V	3.2mV	6.5mV	5.91V	0.5mV
Q806	9.94V	0.01V	5mV	4.94V	1.7mV

[Measuring Conditions]

1. Power Supply Voltage : DC14.4V
2. Measuring Meter : Digital Multi Meter
3. Measuring Reference Point : Between Ground
4. Measuring Condition : No Signal Input
   FM 98.1MHz
   MW 999Hz
   TAPE ..... Blank

Note : ○ : For 7511R Model Only, ● : For 7510R Model Only, Others : Common.

Electrical Parts List

Resistor : Carbon resistors under 1 / 4 watts are not mentioned in the parts list, please confirm them by schematic diagram.

Capacitor : μF = microfarads, pF = picofarads

Abbreviations

RES. =	Resistor	CAP. =	Capacitor
C.F. =	Carbon Film	ELY. =	Electrolytic
M.F. =	Metal Film	CER. =	Ceramic
M.O. =	Metal Oxide Film	MYL. =	Mylar
M.P. =	Metal Plate	TAN. =	Tantalum
TR. =	Transistor	POLY. =	Polystyrol
TRANS. =	Transformer	PP. =	Polypropylene
CP. =	Chip	PLT. =	Polyethylene
		PF. =	Polyester Film

Main P. C. Board

IC's

Symbol No.	Part No.	Description
	IC001	51T65054W01	LA1888M
	IC002	51T93532F07	TC4S66F
	IC003	51T65421W01	NJU7032D
	IC004	51T55553W01	LC72140M
	IC005	51T93532F07	TC4S66F
	IC006	51T65380F21	XRA4558HT
	IC007	51T93532F07	TC4S66F
	IC008	51T45178W02	TC4W53F
	IC010	51T55054W02	SAA6579T
	IC101	51T65025W01	LA3161
○	IC102	51T67915F01	M51143AL
○	IC201	51T65380F21	XRA4558HT
	IC202	51T35133W02	TA8215H
●	IC203	51T40941U01	MC14066BCP
	IC204	51T65380F21	XRA4558HT
○	IC301	51T16466W02	CXA1163M
	IC501	51T55504W01	55504W01
	IC502	51T95014F13	S-8052HNM-CR
	IC801	51T15268W03	L78LR05DFA

Transistors

Symbol No.	Part No.	Description
	Q001	48T45362W01	CP., FC12
	Q002	48T16662W03	FET, 3SK131A
	Q003	48T62967F03	CP., DTC124K
	Q004	48T62970F03	CP., 2SC2413K
	Q005	48T62967F03	CP., DTC124K
	Q007	48T62967F03	CP., DTC124K
	Q008	48T83835F03	2SD1859
	Q010	48T52438F01	CP., 2SD601A
	Q011	48T63420F01	CP., 2SA1037K
	Q012	48T63420F01	CP., 2SA1037K
	Q013	48T62967F03	CP., DTC124K
○	Q102	48T52438F01	CP., 2SD601A
○	Q103	48T63420F01	CP., 2SA1037K
○	Q104	48T63420F01	CP., 2SA1037K
○	Q105	48T62967F09	CP., DTC114TK
○	Q107	48T84366F01	2SB1243
	Q108	48T62967F33	CP., DTC343T
	Q109	48T62967F33	CP., DTC343T
	Q203	48T62967F33	CP., DTC343T
	Q204	48T62967F33	CP., DTC343T
○	Q205	48T62967F33	CP., DTC343T
○	Q206	48T62967F33	CP., DTC343T
	Q207	48T62967F33	CP., DTC343T
	Q208	48T62967F33	CP., DTC343T
●	Q209	48T62967F03	CP., DTC124K
●	Q210	48T62967F03	CP., DTC124K
	Q501	48T62967F03	CP., DTC124K
	Q502	48T62967F03	CP., DTC124K
	Q503	48T62967F03	CP., DTC124K
	Q504	48T73888F12	CP., FMC2
	Q506	48T73888F12	CP., FMC2
	Q507	48T62967F03	CP., DTC124K
	Q511	48T63420F01	CP., 2SA1037K
	Q801	48T73888F12	CP., FMC2
	Q802	48T62967F06	CP., DTC114YK
	Q803	48T84366F01	2SB1243
	Q804	48T62967F09	CP., DTC114TK
	Q805	48T83835F03	2SD1859
	Q806	48T73888F12	CP., FMC2
	Q807	48T63420F01	CP., 2SA1037K
	Q808	48T62967F03	CP., DTC124K
	Q809	48T84366F01	2SB1243
	Q810	48T62967F03	CP., DTC124K
	Q811	48T84366F01	2SB1243
	Q812	48T62967F03	CP., DTC124K
	Q813	48T83835F03	2SD1859
	Q814	48T15289W03	2SD2008

Diodes / Surge Protector

Symbol No.	Part No.	Description
	D001	48T68806F01	CP., 1SV172
	D003	48T63462F01	CP., DAN202K
	D004	48T68806F01	CP., 1SV172
	D005	48T68828F01	1SS133
	D006	48T64134F01	CP., DA204K
	D101	48T68828F01	1SS133
○	D103	48T84052F01	11ES2
	D105	48T68828F01	1SS133
	D106	48T68828F01	1SS133
○	D201	48T68828F01	1SS133
	D202	48T81044F01	10E2

Notes : ○: For 7511R Model only, ●: For 7510R Model only, Others : Common.

Symbol No.	Part No.	Description
D203	48T84052F01	11ES2
D204	48T84052F01	11ES2
D205	48T84052F01	11ES2
D206	48T84052F01	11ES2
D501	48T63462F01	CP., DAN202K
D502	48T68828F01	1SS133
D503	48T68828F01	1SS133
D504	48T68828F01	1SS133
D505	48T68828F01	1SS133
D506	48T70933F01	1SS136
D507	48T68828F01	1SS133
D508	48T68828F01	1SS133
D509	48T68828F01	1SS133
D510	48T68828F01	1SS133
D801	48T68828F01	1SS133
D802	48T64134F01	CP., DA204K
D803	48T84052F01	11ES2
ZD002	48T83128F02	Zener, HZS6A2L
ZD102	48T90517F26	Zener, HZS5.6NB1
ZD501	48T90517F36	Zener, HZS7.5NB2
ZD502	48T90517F07	Zener, HZS2.7NB1
ZD801	48T90517F36	Zener, HZS7.5NB2
ZD802	48T90517F45	Zener, HZS10NB2
ZD803	48T83128F27	Zener, HZS9C3L
ZD804	48T83128F25	Zener, HZS9C1L
VD001	48T65156W01	Varactor, KV1563MTL
VD004	48T65157W01	Varactor, KV1410
VD005	48T65157W01	Varactor, KV1410
VD006	48T65157W01	Varactor, KV1410
DSP001	48T81909F01	DSP-201M
Coils		
L001	24T50508F18	Inductor, 4.7µH
L002	24T50508F24	Inductor, 15µH
L003	24T65116W01	AM RF
L004	24T65118W01	AM RF
L005	24T45574W01	IFT2 (BLK)
L006	24T65456W01	FM IFT
L007	24T45573W01	IFT1 (BLK)
L008	24T63920F02	IFT
L009	24T16403W03	Inductor, 0.1µH
L010	24T83304F03	D-TYPE (RED)
L011	24T65307W01	FM RF
L012	24T93273F02	OSC
L013	24T65117W01	AM OSC
L014	24T25798W13	Inductor, 1mH
L501	24T70381F13	Inductor, 2.2µH

Symbol No.	Part No.	Description
Crystals		
X001	91T45118W43	7.2MHz
X002	91T45118W18	4.332MHz
X501	91T45118W44	7.3728MHz
Filters		
CF001	91T35460W01	CER., 10.7MS3A10K2
CF002	91T35460W01	CER., 10.7MS3A10K2
CF003	91T25464W01	CER., SFPS450H11P4
CF004	91T35637W01	CER., 10.7MJA10K4
CF005	91T65294W02	CER., CSB456F34
Capacitors		
C001	08T15399W01	CP., 0.022µF
E001	23T55402W34	ELY., 3.3µF / 50V
C002	08T15399W01	CP., 0.022µF
E002	23T55402W10	ELY., 22µF / 10V
C003	08T15399W01	CP., 0.022µF
E003	23T55402W32	ELY., 1µF / 50V
C004	08S82122F05	CP., 2pF
E004	23T55402W34	ELY., 3.3µF / 50V
C005	08S82122F05	CP., 2pF
E005	23T55402W13	ELY., 100µF / 10V
C006	08T15399W03	CP., 0.047µF
E006	23T55402W32	ELY., 1µF / 50V
C007	08S65128F57	CP., 1000pF
E007	23T55402W32	ELY., 1µF / 50V
C008	08S82122F15	CP., 12pF
E008	23T55402W31	ELY., 0.47µF / 50V
C009	08S12453W06	CP., 430pF
E009	23S61524F17	ELY., 3.3µF / 25V
C010	08T15399W01	CP., 0.022µF
E010	23T55402W13	ELY., 100µF / 10V
C011	08T15399W01	CP., 0.022µF
E011	23T55402W31	ELY., 0.47µF / 50V
C012	08T15399W01	CP., 0.022µF
E012	23T55521W34	ELY., 1µF / 50V
C013	08T15399W01	CP., 0.022µF
E013	23T55521W31	ELY., 0.22µF / 50V
C014	08S82122F08	CP., 5pF
E014	23T55521W34	ELY., 1µF / 50V
C015	08S82122F25	CP., 33pF
C016	08S82122F19	CP., 18pF
C017	08S82122F17	CP., 15pF
E017	23T55402W15	ELY., 10µF / 16V
C018	08S65128F57	CP., 1000pF
E018	23T55402W07	ELY., 47µF / 6.3V
C019	08S65128F57	CP., 1000pF

Symbol No.	Part No.	Description
E019	23T55402W15	ELY., 10μF / 16V
C020	08S82122F09	CP., 6pF
E020	23T55402W14	ELY., 220μF / 10V
C021	08S82122F29	CP., 47pF
E021	23T55402W15	ELY., 10μF / 16V
C022	08S65128F57	CP., 1000pF
E022	23T55402W33	ELY., 2.2μF / 50V
C023	08S65128F69	CP., 0.01μF
E023	23T55402W30	ELY., 0.33μF / 50V
C024	08T15399W01	CP., 0.022μF
E024	23T55402W15	ELY., 10μF / 16V
C025	08S82122F08	CP., 5pF
C026	08S82122F08	CP., 5pF
E026	23T55521W18	ELY., 47μF / 16V
C027	08T15399W01	CP., 0.022μF
E027	23T55402W34	ELY., 3.3μF / 50V
C028	08S82122F21	CP., 22pF
E028	23T55402W31	ELY., 0.47μF / 50V
C029	08S82122F03	CP., 1pF
C030	08S82122F03	CP., 1pF
C031	08S65128F69	CP., 0.01μF
C032	08S82122F37	CP., 100pF
C033	08S65128F69	CP., 0.01μF
C034	08S65128F57	CP., 1000pF
C035	08S65128F69	CP., 0.01μF
C036	08S65128F69	CP., 0.01μF
C037	08S65128F61	CP., 2200pF
C038	08T15399W01	CP., 0.022μF
C039	08T15399W01	CP., 0.022μF
C040	08S65128F69	CP., 0.01μF
C041	08T15399W03	CP., 0.047μF
C042	08T15399W01	CP., 0.022μF
C044	08S65128F68	CP., 8200pF
C045	08S65128F57	CP., 1000pF
C046	08T15399W02	CP., 0.033μF
C047	08T35122W15	PF., 0.15μF
C048	08T15399W02	CP., 0.033μF
C049	08T15399W01	CP., 0.022μF
C050	08T15399W01	CP., 0.022μF
C051	08T35122W13	PF., 0.1μF
C052	08T15399W01	CP., 0.022μF
C053	08S65128F57	CP., 1000pF
C054	08S82122F23	CP., 27pF
C055	08S82122F23	CP., 27pF
C056	08S82122F23	CP., 27pF
C057	08S82122F23	CP., 27pF
C058	08S82122F55	CP., 560pF
C059	08S82122F49	CP., 330pF
C060	08S65128F69	CP., 0.01μF
C061	08S65128F61	CP., 2200pF
C062	08S65128F69	CP., 0.01μF
C063	08T15399W03	CP., 0.043μF

Symbol No.	Part No.	Description
C064	08S65128F69	CP., 0.01μF
C065	08S65128F61	CP., 2200pF
C066	08T15399W01	CP., 0.022μF
C067	08S82122F15	CP., 12pF
C068	08S65128F69	CP., 0.01μF
C069	08S82122F25	CP., 33pF
C070	08S82122F07	CP., 4pF
C071	08S65128F57	CP., 1000pF
C072	08T15399W01	CP., 0.022μF
C073	08S65128F69	CP., 0.01μF
C074	08S82122F37	CP., 100pF
C080	08S82122F37	CP., 100pF
C081	08S82122F37	CP., 100pF
C099	23T82372F19	ELY., (B.P) 2.2μF / 50V
C101	08S82122F59	CP., 820pF
C102	08S82122F59	CP., 820pF
E102	23T55402W17	ELY., 33μF / 16V
C103	08T35122W06	PF., 0.027μF
C104	08T35122W06	PF., 0.027μF
E104	23S57422F04	ELY., 0.47μF / 50V
○ C105	08S82122F37	CP., 100pF
E105	23S61523F28	ELY., 0.47μF / 50V
C106	08S65128F65	CP., 4700pF
E106	23T55521W08	ELY., 220μF / 6.3V
C107	08S65128F65	CP., 4700pF
E107	23T55521W08	ELY., 220μF / 6.3V
E108	23T55402W32	ELY., 1μF / 50V
E109	23T55521W19	ELY., 100μF / 16V
C110	08S82122F37	CP., 100pF
○ E110	23T55521W30	ELY., 0.1μF / 50V
C111	08S82122F37	CP., 100pF
○ E111	23T55521W30	ELY., 0.1μF / 50V
○ E112	23T55521W34	ELY., 1μF / 50V
○ E113	23T55402W28	ELY., 0.1μF / 50V
○ E114	23T55402W05	ELY., 22μF / 6.3V
E115	23T55521W35	ELY., 2.2μF / 50V
E116	23T55521W35	ELY., 2.2μF / 50V
E117	23T55402W15	ELY., 10μF / 16V
E118	23T55402W15	ELY., 10μF / 16V
○ E120	23T55521W35	ELY., 2.2μF / 50V
E201	23T55402W20	ELY., 4.7μF / 25V
E202	23T55402W20	ELY., 4.7μF / 25V
E203	23T55521W20	ELY., 4.7μF / 25V
E204	23T55521W20	ELY., 4.7μF / 25V
E207	23T55521W34	ELY., 1μF / 50V
E208	23T55521W34	ELY., 1μF / 50V
C209	08S65128F57	CP., 1000pF
C210	08S65128F57	CP., 1000pF
C211	08S65128F76	CP., 0.1μF
○ E211	23T55402W32	ELY., 1μF / 50V
C212	08T35122W15	PF., 0.15μF
○ E212	23T55402W14	ELY., 220μF / 10V

Notes : ○: For 7511R Model only, ●: For 7510R Model only, Others : Common.

Symbol No.	Part No.	Description
	C213	08T35122W15	PF., 0.15µF
○	E213	23T55521W35	ELY., 2.2µF / 50V
	C214	08T35122W15	PF., 0.15µF
○	E214	23T55521W35	ELY., 2.2µF / 50V
	C215	08T35122W15	PF., 0.15µF
○	E215	23T55402W15	ELY., 10µF / 16V
○	E216	23T55402W15	ELY., 10µF / 16V
	C217	08S82122F37	CP., 100pF
	E217	23T55521W34	ELY., 1µF / 50V
	C218	08S82122F37	CP., 100pF
	E218	23T55521W34	ELY., 1µF / 50V
	E219	23T55405W01	ELY., 10µF / 16V
	E220	23T55405W01	ELY., 10µF / 16V
	E221	23T16360W41	ELY., 3300µF / 16V
	E222	23T55402W17	ELY., 33µF / 16V
	E223	23T35462W20	ELY., 220µF / 16V
	E224	23T55402W32	ELY., 1µF / 50V
	E260	23T55402W13	ELY., 100µF / 10V
○	E301	23T55402W32	ELY., 1µF / 50V
○	E302	23T55402W32	ELY., 1µF / 50V
○	E303	23T55402W32	ELY., 1µF / 50V
○	E304	23T55402W32	ELY., 1µF / 50V
○	E305	23T55402W08	ELY., 100µF / 6.3V
○	E306	23T55402W38	ELY., 0.68µF / 50V
○	E307	23T55402W38	ELY., 0.68µF / 50V
○	E308	23T55402W05	ELY., 22µF / 6.3V
○	E309	23T55402W32	ELY., 1µF / 50V
	C501	08S65128F69	CP., 0.01µF
	E501	23T55402W15	ELY., 10µF / 16V
	C502	08S82122F21	CP., 22pF
	E502	23T55402W14	ELY., 220µF / 10V
	C503	08S82122F21	CP., 22pF
	C504	08T15399W01	CP., 0.022µF
	E504	23T55402W16	ELY., 22µF / 16V
	C505	08S65128F69	CP., 0.01µF
	E505	23T55402W28	ELY., 0.1µF / 50V
	E506	23T55402W29	ELY., 0.22µF / 50V
○	C507	08S82122F37	CP., 100pF
○	C508	08S82122F37	CP., 100pF
○	C509	08S82122F37	CP., 100pF
	C510	08S82122F37	CP., 100pF
	C511	08S82122F37	CP., 100pF
	C512	08S82122F37	CP., 100pF
	C513	08S82122F37	CP., 100pF
	C514	08S65128F69	CP., 0.01µF
○	C516	08T15399W01	CP., 0.022µF
	C517	08S82122F37	CP., 100pF
	C801	08S65128F69	CP., 0.01µF
	E801	23T55521W34	ELY., 1µF / 50V
	C802	08T15399W03	CP., 0.047µF
	E802	23T55402W15	ELY., 10µF / 16V
	C803	08T15399W01	CP., 0.022µF

Symbol No.	Part No.	Description
	E803	23T55402W16	ELY., 22µF / 16V
	C804	08T15399W01	CP., 0.022µF
	E804	23T55402W14	ELY., 220µF / 10V
	E805	23T55402W14	ELY., 220µF / 10V

Resistors (All resistors are chip 1/10W±5% unless otherwise noted.)

	R001	06S70072F05	10 ohm 1/4W
	R002	06S64995F17	33 ohm
	R003	06S64996F02	100K ohm
	R004	06S64996F02	100K ohm
	R005	06S64995F45	470 ohm
	R006	06S64995F65	3.3K ohm
	R007	06S64995F41	330 ohm
	R008	06S64996F02	100K ohm
	R009	06S64995F87	27K ohm
	R010	06S64995F85	22K ohm
	R011	06S64995F61	2.2K ohm
	R012	06S64995F77	10K ohm
	R013	06S64995F29	100 ohm
	R014	06S64995F85	22K ohm
	R015	06S64995F93	47K ohm
	R016	06S64995F77	10K ohm
	R017	06S64996F24	820K ohm
	R018	06S64995F33	150 ohm
	R019	06S64995F17	33 ohm
	R020	06S64995F17	33 ohm
	R021	06S64995F33	150 ohm
	R022	06S64995F17	33 ohm
	R024	06S64996F02	100K ohm
	R025	06S64995F93	47K ohm
	R026	06S64995F93	47K ohm
	R027	06S64995F91	39K ohm
	R028	06S64996F10	220K ohm
	R029	06S64995F85	22K ohm
	R030	06S64995F29	100 ohm
	R031	06S64995F37	220 ohm
	R032	06S64996F10	220K ohm
	R033	06S64995F53	1K ohm
	R034	06S64996F24	820K ohm
	R035	06S64996F02	100K ohm
	R036	06S64995F69	4.7K ohm
○	R037	06S64995F85	22K ohm
○	R038	06S64995F85	22K ohm
	R039	06S64996F28	1.5M ohm
	R040	06S64995F53	1K ohm
	R041	06S64995F99	82K ohm
	R042	06S64995F71	5.6K ohm
	R043	06S64995F93	47K ohm
	R044	06S64996F02	100K ohm
	R045	06S64995F77	10K ohm

Notes : ○: For 7511R Model only, ●: For 7510R Model only, Others : Common.

Symbol No.	Part No.	Description
R046	06S64995F85	22K ohm
R047	06S64995F77	10K ohm
R048	06S64995F81	15K ohm
R049	06S64995F87	27K ohm
R050	06S64995F77	10K ohm
R051	06S64995F77	10K ohm
R053	06S64995F53	1K ohm
R054	06S64995F61	2.2K ohm
R055	06S64995F53	1K ohm
R056	06S64995F71	5.6K ohm
R057	06S64995F29	100 ohm
R058	06S64995F63	2.7K ohm
R059	06S64995F69	4.7K ohm
R060	06S64995F71	5.6K ohm
R061	06S64995F29	100 ohm
R063	06S70072F53	1K ohm 1/4W
R064	06S64995F93	47K ohm
R065	06S64995F61	2.2K ohm
R066	06S64995F77	10K ohm
R067	06S64996F02	100K ohm
R068	06S64995F17	33 ohm
R069	06S64996F02	100K ohm
R070	06S64996F02	100K ohm
R071	06S64995F69	4.7K ohm
R072	06S64995F69	4.7K ohm
R073	06S64995F77	10K ohm
R074	06S64996F02	100K ohm
R075	06S64995F81	15K ohm
R076	06S64996F10	220K ohm
R077	06S64996F14	330K ohm
R078	06S64995F29	100 ohm
R081	06S64995F53	1K ohm
R082	06S64995F77	10K ohm
R083	06S64995F87	27K ohm
○ R084	06S64995F71	5.6K ohm
○ R085	06S64995F71	5.6K ohm
R090	06S64995F53	1K ohm
R091	06S64995F53	1K ohm
R092	06S64995F85	22K ohm
R093	06S64995F91	39K ohm
R094	06S64995F53	1K ohm
R095	06S64995F77	10K ohm
R097	06S64995F77	10K ohm
R098	06S64995F61	2.2K ohm
R103	06S64996F02	100K ohm
R104	06S64995F91	39K ohm
R109	06S64996F04	120K ohm
R110	06S64996F04	120K ohm
R111	06S64995F69	4.7K ohm
R112	06S64995F69	4.7K ohm
○ R113	06S64995F21	47 ohm
● R113	06S64995F19	39 ohm

Symbol No.	Part No.	Description
○ R114	06S64995F21	47 ohm
● R114	06S64995F19	39 ohm
R116	06S70072F78	2.2 ohm 1/4W
○ R117	06S64995F71	5.6K ohm
○ R118	06S64995F71	5.6K ohm
○ R119	06S64996F02	100K ohm
○ R120	06S64996F02	100K ohm
○ R121	06S64995F77	10K ohm
○ R122	06S64995F77	10K ohm
○ R123	06S64996F18	470K ohm
○ R124	06S64996F18	470K ohm
○ R125	06S64996F10	220K ohm
○ R126	06S64995F69	4.7K ohm
○ R127	06S64996F02	100K ohm
○ R128	06S64995F77	10K ohm
○ R129	06S64995F77	10K ohm
○ R130	06S81094F60	M.F., 620 ohm 1/2W
○ R131	06S81094F60	M.F., 620 ohm 1/2W
○ R132	06S81094F60	M.F., 620 ohm 1/2W
R134	06S64995F77	10K ohm
R135	06S64995F77	10K ohm
R137	06S64995F53	1K ohm
R138	06S64995F53	1K ohm
○ R139	06S64995F77	10K ohm
R213	06S64995F53	1K ohm
R214	06S64995F53	1K ohm
R215	06S64995F53	1K ohm
R216	06S64995F53	1K ohm
○ R218	06S64995F53	1K ohm
○ R219	06S64995F53	1K ohm
○ R220	06S64995F53	1K ohm
○ R221	06S64995F53	1K ohm
○ R222	06S64995F65	3.3K ohm
○ R223	06S64995F65	3.3K ohm
○ R224	06S64996F02	100K ohm
○ R225	06S64996F02	100K ohm
○ R226	06S64995F87	27K ohm
○ R227	06S64995F87	27K ohm
○ R228	06S64995F37	220 ohm
○ R229	06S64995F37	220 ohm
○ R230	06S64995F85	22K ohm
○ R231	06S64995F85	22K ohm
○ R232	06S64995F37	220 ohm
○ R233	06S64995F37	220 ohm
R234	06S64995F77	10K ohm
R235	06S70072F78	2.2 ohm 1/4W
R236	06S70072F78	2.2 ohm 1/4W
R237	06S70072F78	2.2 ohm 1/4W
R238	06S70072F78	2.2 ohm 1/4W
R239	06S64995F45	470 ohm
● R241	06S64995F85	22K ohm
● R242	06S64995F61	2.2K ohm

Notes : ○: For 7511R Model only, ●: For 7510R Model only, Others : Common.

Symbol No.	Part No.	Description
○ R244	06S64995F69	4.7K ohm
● R244	06S64995F61	2.2K ohm
○ R245	06S64995F69	4.7K ohm
● R245	06S64995F61	2.2K ohm
R246	06S64995F93	47K ohm
R247	06S64995F93	47K ohm
R248	06S64995F85	22K ohm
R249	06S64995F85	22K ohm
R250	06S64995F45	470 ohm
R251	06S64995F45	470 ohm
R252	06S64995F85	22K ohm
R253	06S64995F85	22K ohm
R260	06S64995F53	1K ohm
R261	06S64995F53	1K ohm
○ R301	06S64995F92	43K ohm
○ R302	06S64995F85	22K ohm
○ R303	06S64995F69	4.7K ohm
R501	06S64995F77	10K ohm
R502	06S64995F77	10K ohm
R503	06S64995F81	15K ohm
R504	06S64996F02	100K ohm
R505	06S64995F69	4.7K ohm
R506	06S64995F85	22K ohm
R507	06S64995F77	10K ohm
R508	06S64996F02	100K ohm
○ R509	06S64995F77	10K ohm
● R510	06S64995F77	10K ohm
R518	06S64995F77	10K ohm
R519	06S64995F77	10K ohm
R520	06S64995F77	10K ohm
R521	06S64995F77	10K ohm
R522	06S64995F77	10K ohm
R523	06S64995F77	10K ohm
R524	06S64995F77	10K ohm
R526	06S70072F21	47 ohm 1/4W
R528	06S64995F77	10K ohm
R529	06S64995F77	10K ohm
R531	06S64996F02	100K ohm
R532	06S64995F85	22K ohm
R535	06S64995F77	10K ohm
R536	06S64995F61	2.2K ohm
R538	06S64996F02	100K ohm
R539	06S64996F02	100K ohm
R540	06S64995F93	47K ohm
R541	06S64995F77	10K ohm
R542	06S64995F77	10K ohm
R543	06S64995F77	10K ohm
R544	06S64995F93	47K ohm
R545	06S64995F53	1K ohm
R547	06S53330F61	2.2K ohm 1/8W
R548	06S64995F53	1K ohm
R550	06S64995F77	10K ohm

Symbol No.	Part No.	Description
R560	06S64995F85	22K ohm
R801	06S64995F69	4.7K ohm
R802	06S53330F69	4.7K ohm 1/8W
R803	06S53330F77	10K ohm 1/8W
R804	06S70072F53	1K ohm 1/4W
R805	06S70072F53	1K ohm 1/4W
R808	06S70072F53	1K ohm 1/4W
R809	06S64995F77	10K ohm
R810	06S53330F61	2.2K ohm 1/8W
R811	06S64995F77	10K ohm
R812	06S70072F03	6.8 ohm 1/4W
R813	06S70072F03	6.8 ohm 1/4W
R814	06S70072F03	6.8 ohm 1/4W
R815	06S64995F77	10K ohm
R816	06S64995F77	10K ohm
R817	06S70072F55	1.2K ohm 1/4W
R818	06S64995F77	10K ohm
R819	06S64995F61	2.2K ohm
R820	06S64995F61	2.2K ohm
R821	06S70072F53	1K ohm 1/4W
R822	06S53330F77	10K ohm 1/8W
R823	06S53330F69	4.7K ohm 1/8W
VR001	18T10024W16	Variable, 33K ohm
VR002	18T10024W15	Variable, 22K ohm
VR003	18T10024W15	Variable, 22K ohm
VR004	18T10024W17	Variable, 47K ohm
○ VR301	18T10024W13	Variable, 10K ohm
○ VR302	18T10024W13	Variable, 10K ohm

Front P. C. Board

IC's

IC401	51T16618W02	MC14014BFEL
or	51T55599W01	µPD4014BGS
IC402	51T55492W01	LC75850W

Diode

D401	48T94471F01	CP., IMN10

Switches

S401	40T55182W01	Tact, SKHVBC (A.P.I)
S402	40T55182W01	Tact, SKHVBC (BAND / DX)
S403	40T55182W01	Tact, SKHVBC (5)
S404	40T55182W01	Tact, SKHVBC (6)
S405	40T55182W01	Tact, SKHVBC (PTY)
S406	40T55182W01	Tact, SKHVBC (4)

Notes : ○: For 7511R Model only, ●: For 7510R Model only, Others : Common.

Symbol No.	Part No.	Description
S407	40T55182W01	Tact, SKHVBC (DN)
S408	40T55182W01	Tact, SKHVBC (UP)
S409	40T55182W01	Tact, SKHVBC (T.INFO / A.ME)
S410	40T55182W01	Tact, SKHVBC (1 / DOLBY)
S411	40T55182W01	Tact, SKHVBC (2 / M.S.)
S412	40T55182W01	Tact, SKHVBC (3 / METAL)
Lamps		
PL401	65T55442W01	6.7V-85mA
PL402	65T45353W02	6V-70mA
PL403	65T45353W02	6V-70mA
Coil		
L401	24T70381F13	Inductor, 2.2μH
Capacitors		
C401	08T15399W03	CP., 0.047μF
E401	23S61523F05	ELY., 22μF / 6.3V
C402	08S65128F78	CP., 0.022μF
C405	08S65128F55	CP., 680pF
Resistors (All resistors are chip 1/10W±5% unless otherwise noted.)		
R401	06S64995F77	10K ohm
R402	06S64995F77	10K ohm
R403	06S64995F77	10K ohm
R404	06S64995F77	10K ohm
R405	06S64995F77	10K ohm
R406	06S64995F77	10K ohm
R407	06S64995F85	22K ohm
R408	06S64995F93	47K ohm
R409	06S64995F93	47K ohm
R410	06S64995F93	47K ohm
R411	06S64995F93	47K ohm
R412	06S64995F93	47K ohm
R415	06S64995F81	15K ohm
R416	06S64995F69	4.7K ohm
R421	06S64995F53	1K ohm
R422	06S64995F53	1K ohm
R423	06S64995F53	1K ohm
R424	06S64995F53	1K ohm
R425	06S64995F53	1K ohm
R426	06S64995F53	1K ohm
R427	06S64995F53	1K ohm
R428	06S64995F53	1K ohm
R429	06S64995F53	1K ohm
R430	06S64995F53	1K ohm
R440	06S64996F08	180K ohm
R441	06S64996F08	180K ohm
R499	06S70072F17	33 ohm 1/4W

Tone P. C. Board

Symbol No.	Part No.	Description
Capacitors		
C201	08S65128F67	CP., 6800pF
C202	08S65128F67	CP., 6800pF
C203	08S65128F81	CP., 0.039μF
C204	08S65128F81	CP., 0.039μF
C205	08S65128F81	CP., 0.039μF
E205	23S61523F26	ELY., 0.22μF / 50V
C206	08S65128F81	CP., 0.039μF
E206	23S61523F26	ELY., 0.22μF / 50V
Resistors (All resistors are chip 1/10W±5% unless otherwise noted.)		
R201	06S64995F69	4.7K ohm
R202	06S64995F69	4.7K ohm
R203	06S64995F53	1K ohm
R204	06S64995F53	1K ohm
R205	06S64995F55	1.2K ohm
R206	06S64995F55	1.2K ohm
R287	06S64995F93	47K ohm
R288	06S64995F93	47K ohm
VR201	18T15284W02	Volume, Bass
VR202	18T15284W02	Volume, Treble

Miscellaneous

	CB501	09T55607W13	17P Connector
	CH401	09T55608W17	17P Connector
	ET001	01T15513W16	Antenna Receptacie
○	ET201	01T55244W03	RCA Output Connector
	ET801	09S58853F10	Power Supply & SP. Output Connector
	HD1101	88E20705S01	Head
	LCD401	65T65326W01	LCD Display (LU1905)
	M1501	01E20699S01	Assy., Motor
	S1501	40E20707S01	Switch, Slide (FWD / REV)
	S1502	40E20709S01	Switch, Leaf (MUTE)
	S1503	40E20706S01	Switch (Power)
○	SD1501	47E20710S01	Solenoid
	VR203, S203	18T25752W05	Volume, Main (VOLUME, BALANCE, FADER / POWER)

Notes : ○: For 7511R Model only, ●: For 7510R Model only, Others : Common.

Cabinet Assembly Parts List

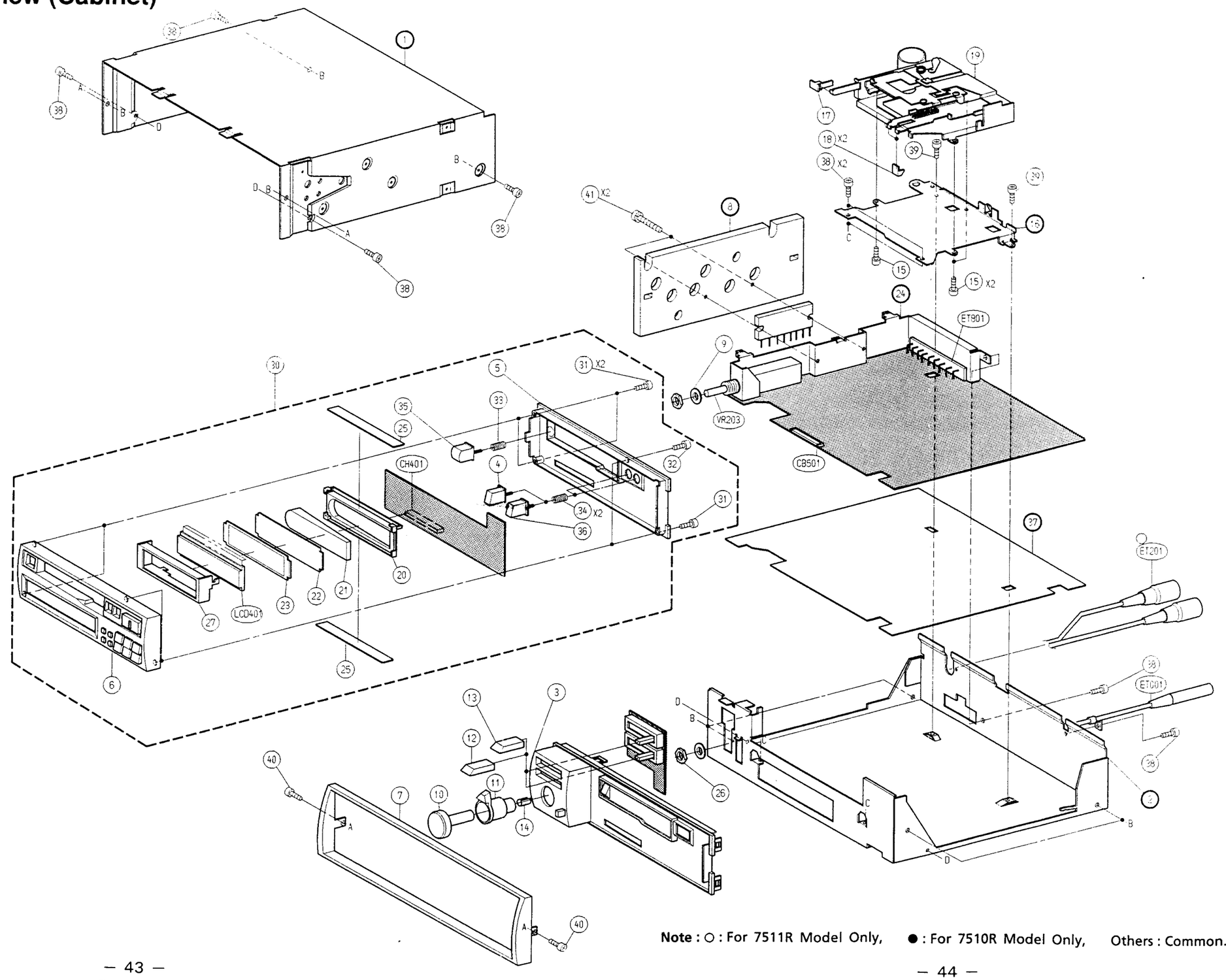
Note : No parts number on parts list are not supplied.

	Symbol No.	Index	Part No.	Description
	3	4-D	13C60374W02	Assy., Front Escutcheon
	4	3-D	36T00351K01	Knob, REW
	5	3-D	13D60182W01	Nose, Bottom
○	6	4-B	13C60373W03	Assy., Nosepiece
●	6	4-B	13C60373W04	Assy., Nosepiece
	7	5-C	33T00344K01	Assy., Face Plate
	9	3-E	04A43020G03	Washer, (M9.2)
	10	5-D	36T00352K01	Knob, Cont (F)
	11	5-D	36T00353K01	Knob, Cont (B)
	12	5-D	36T00354K01	Knob, Slide (A)
	13	4-D	36T00354K02	Knob, Silde (B)
	14	5-D	41A63556F02	Spring, Knob Insert
	15		03S44205G30	Screw, Pan (M2.6×4)
	17	1-F	36T00355K01	Knob, EJECT
	18	1-F	36T00356K01	Knob, FF/REW
○	19	1-G	81T65046W01	Cassette Deck (GS75A020)
●	19	1-G	81T65045W01	Cassette Deck (GS75A010)
	20	4-D	15B60333W01	Case, LCD
	21	4-C	61A61124W01	Lens, LCD
	22	4-C	26A60332W01	Refrector, Sheet
	23	4-C	26A60332W02	Refrector, Sheet
	25		75T65126W01	Rubber, Electric
	26	5-E	02S40000G20	Nut, Hexagon (M9)
	27	4-B	15A60334W01	Cover, LCD
○	30	3-C	01V61200W13	Assy., Nose Unit
●	30	3-C	01V61600W01	Assy., Nose Unit
	31		03S68555F36	Screw, Pan (M2×10)
	32	3-E	03S68555F24	Screw, Pan (M2×8)
	33	3-D	41A50111W04	Spring, EJECT
	34	3-D	41A50111W05	Spring, Knob FF/REW
	35	3-C	36T00349K01	Knob, EJECT
	36	3-D	36T00350K01	Knob, FF
	38		03S44205G07	Screw, Pan (M2.6×5)
	39		03S44205G30	Screw, Pan (M2.6×4)
	40		03S44205G34	Screw, Pan (M2.6×5)
	41	2-D	03S40014G58	Screw, W/Washer (M2.6×14)

Symbol No.	Index	Part No.	Description

Note : ○ : For 7511R Model Only, ● : For 7510R Model Only, Others : Common.

Exploded View (Cabinet)



Note : ○ : For 7511R Model Only, ● : For 7510R Model Only, Others : Common.

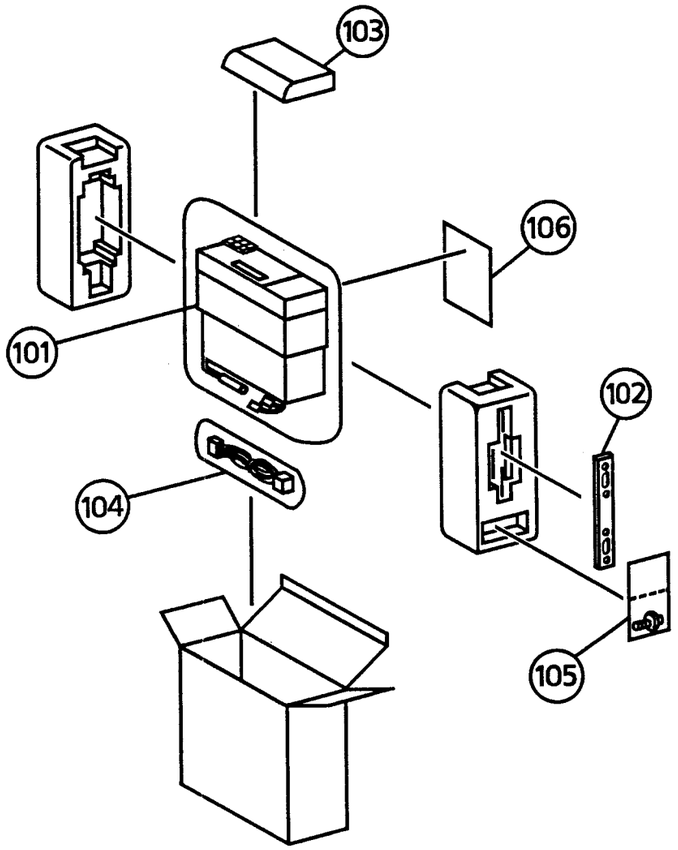
7511R / 7510R

Packing Assembly Parts List

Symbol No.	Part No.	Description
101	15D50406W01	Case, Inner
102	07B64552F01	Bracket, Strap Receiver
103	15T65204W01	Carrying, Case
104	01T65119W01	Power Supply & SP Output Connector
105-1	02B47353F01	Nut, Hex. (M5)
105-2	03S72235F42	Screw, Countersink (M5×8)
105-3	46A42363F01	Stud, Bolt
105-4	45T00357K01	Lever, Eject
106	68P60141W19	Owner's Manual

Symbol No.	Part No.	Description

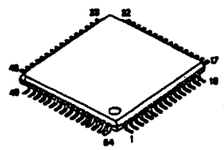
Packing Method View

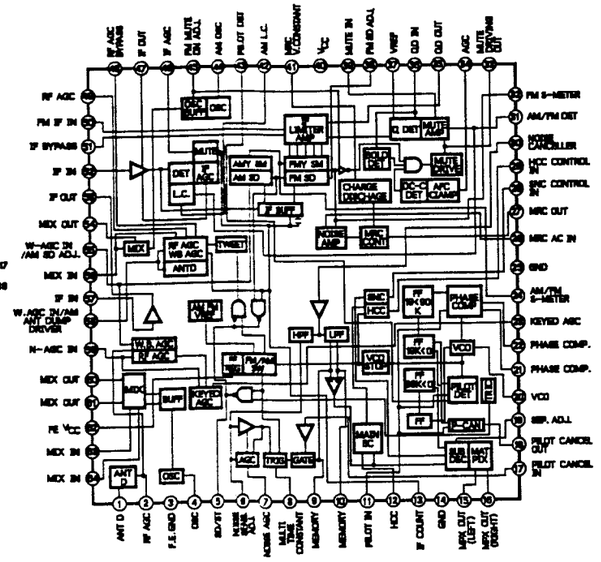


Semi - Conductor Lead Identifications

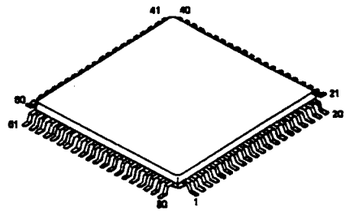
Note : The parts is not mentioned, refer to the Schematic Diagram.

LA1888M : IC001



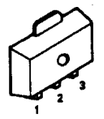


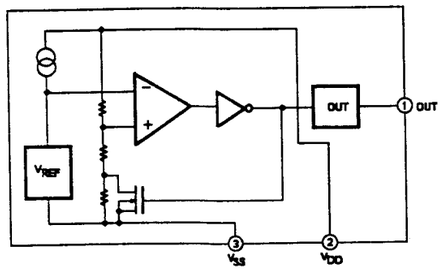
55504W01 : IC501



PIN NO.	CODE ADDRESS	I/O	PIN NO.	CODE ADDRESS	I/O	PIN NO.	CODE ADDRESS	I/O	PIN NO.	CODE ADDRESS	I/O
1	RESET	I	21	LCD ON	O	41	LCD CLK	O	61	NC	—
2	X1	I	22	NOISE ON	O	42	LCD INH	O	62	NC	—
3	X2	I	23	RDS CLK	I	43	KEY IN	I	63	NC	—
4	MD1	I	24	NC	—	44	KEY P/S	O	64	FM/AM	O
5	MD0	I	25	NC	—	45	ALM	O	65	PACK IN	I
6	NMI	I	26	NC	—	46	NC	—	66	NOR/REV	I
7	STBY	I	27	NC	—	47	V_{CC}	—	67	MTL	O
8	V_{CC}	—	28	NC	—	48	PLL CE	O	68	M6	I/O
9	SCKO	O	29	AV_{CC}	—	49	PLL CLK	O	69	DOLBY B	O
10	RDS MON	I	30	NOISE IN	I	50	PLL D-IN	I	70	DECK MUTE	I
11	RDS MON	O	31	10/11	I	51	PLL D-OU	O	71	PWREC ON	O
12	V_{SS}	—	32	ADJON	I	52	LPF SW-1	O	72	TAPE/TAD	O
13	NC	—	33	M/P	I	53	IF MUTE	O	73	V_{SS}	—
14	NC	—	34	S METER	I	54	LPF SW-2	O	74	TEST	I
15	NC	—	35	AUDIO IN	I	55	ALM SW	O	75	MUTE	O
16	NC	—	36	ST/SD	I	56	V_{SS}	—	76	PWR CONT	O
17	VOL UP	O	37	NC	—	57	P6 OFF	I	77	RDS DATA	I
18	ACC	—	38	AV_{SS}	—	58	NC	—	78	NC	—
19	BATT	—	39	LCD CE	O	59	NC	—	79	NC	—
20	POWER SW	I	40	LCD DATA	O	60	NC	—	80	NC	—

S-8052HNM-CR : IC801

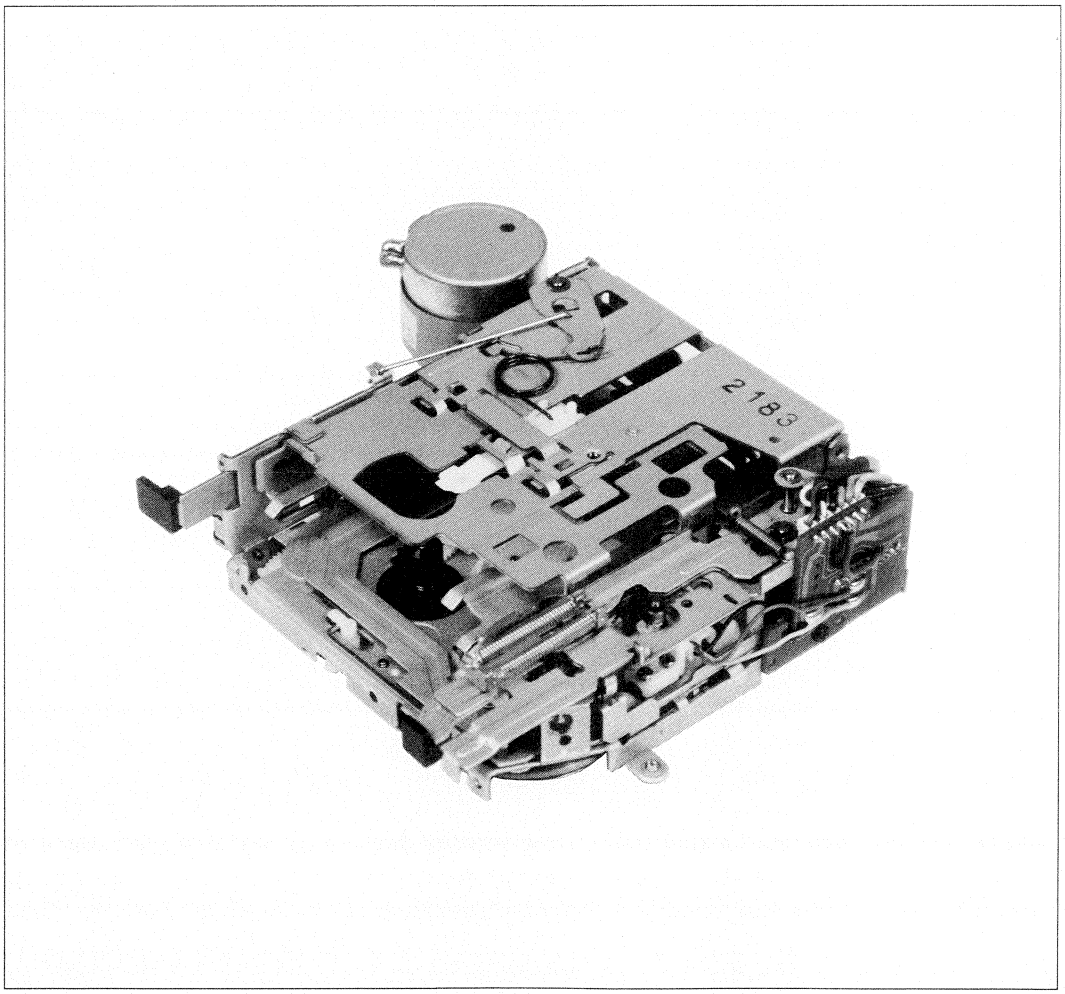




ALPINE®

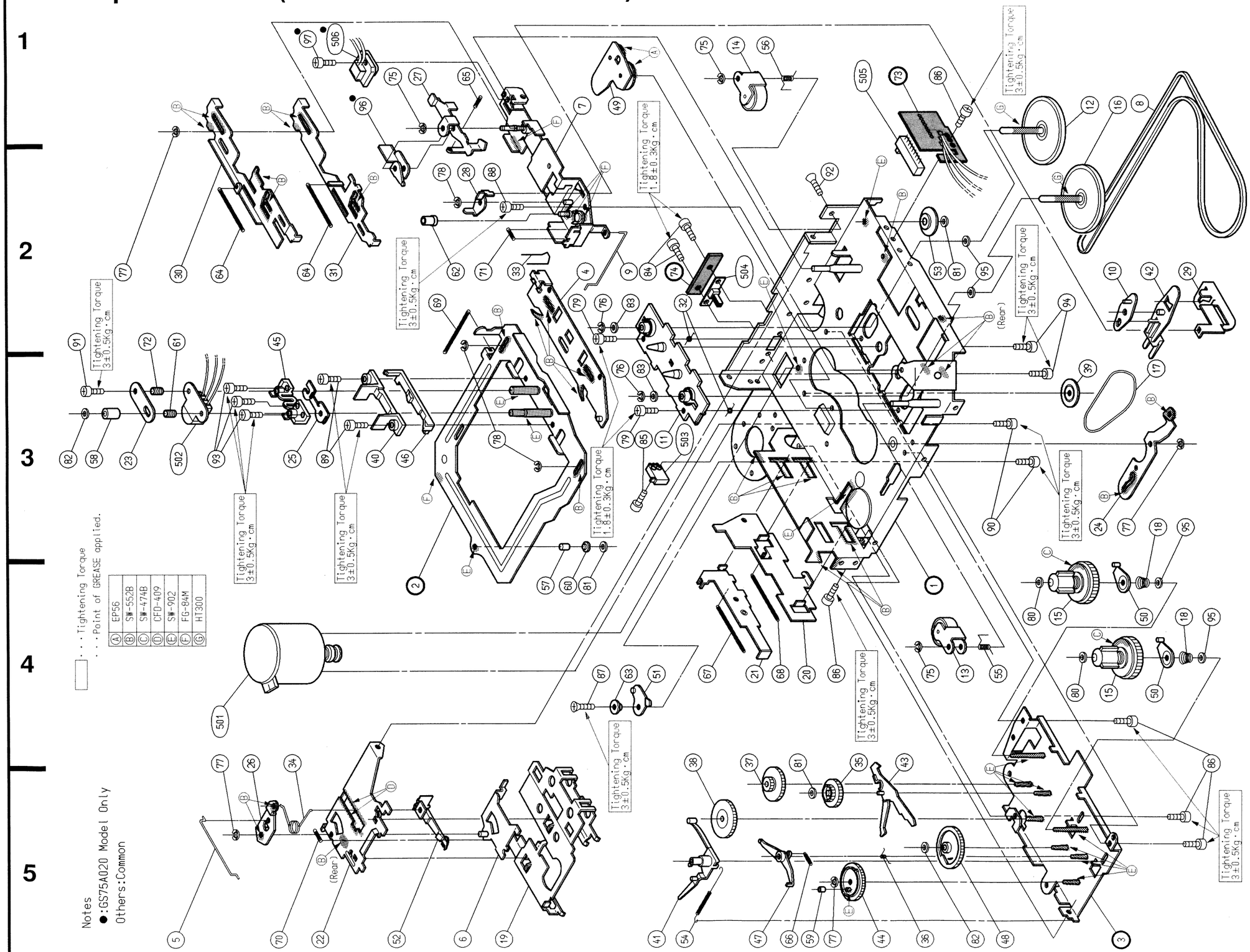
SERVICE MANUAL

Cassette Deck Mechanism



GS SERIES

Exploded View (Cassette Deck Mechanism) ● GS75A010/020



Cassette Deck Mechanism Assembly Parts List

Note : No parts number on parts list are not supplied.

Symbol No.	Index	Part No.	Description
4	2-C	01E20627S01	Assy., FR Changing Arm
5	5-A	45E20697S01	Link, Return
6	5-C	01E20628S01	Assy., Eject Cam Lock
7	1-D	01E20629S01	Assy., Lever Bracket (D)
8	1-F	42E20696S01	Belt, Main (AL)
9	2-D	45E20695S01	Link, Selector (B)
10	2-F	01E20630S01	Assy., FR Arm (A)
11	3-D	01E20631S01	Assy., CM Bracket
12	1-F	01E20632S01	Assy., Flywheel (BF)
13	4-E	01E20633S01	Assy., Pinch Roller Arm (R)
14	1-D	01E20634S01	Assy., Pinch Roller Arm (F)
○ 15	4-F	01E20733S01	Assy., Spindle Reel (S)
● 15	4-F	01E20635S01	Assy., Spindle Reel (D)
16	1-F	01E20636S01	Assy., Flywheel (BR)
17	3-F	42E20694S01	Belt, Sub (C)
18		41E20693S01	Spring, Back Tension
19	5-C	07E20637S01	Holder, Cassette (X)
20	4-E	45E20638S01	Cam, Eject
21	4-D	45E20639S01	Lever, Eject
22	5-B	45E20640S01	Hanger, Cassette (X)
23	3-A	45E20641S01	Plate, Spring Support
24	3-F	45E20642S01	Lever, Reverse
25	3-B	45E20643S01	Shim, Adjuster (X)
26	4-B	45E20644S01	Plate, Center
27	1-C	45E20645S01	Arm, Lock (A)
28	2-C	45E20646S01	Lever, Change (B)
29	2-G	45E20647S01	Arm, FR (B)
30	2-A	45E20648S01	Lever, FF (AT)
31	2-B	45E20649S01	Lever, Rew (AT)
32	2-D	41E20692S01	Spring, Earth (R)
33	2-C	41E20691S01	Spring, Changing Arm
34	4-B	41E20690S01	Spring, Center Plate (B)
35	4-E	44E20651S01	Gear, Idle
36	5-E	41E20689S01	Spring, Dash
37	4-D	44E20652S01	Gear, Reduction (A)
38	4-D	44E20653S01	Gear, Reduction (B)
39	3-F	44E20654S01	Gear, Pulley
40	3-B	43E20655S01	Guide, Tape
41	5-D	45E20656S01	Ratchet
42	2-F	45E20657S01	Arm, FF
43	4-E	45E20658S01	Arm, Sensor
44	5-E	44E20659S01	Gear, Selector
45	2-B	45E20660S01	Arm, Adjuster (B)
46	3-C	45E20661S01	Link, Adjuster (X)
47	5-D	44E20662S01	Arm, Gear Lock
48	5-F	44E20663S01	Gear, Detector
49	1-D	01E20664S01	Assy., TU Gear Arm

Symbol No.	Index	Part No.	Description
50	4-F	01E20665S01	Assy., Detector Cam
51	4-D	45E20666S01	Arm, Mute (N)
52	5-C	45E20667S01	Hooker, Tape
53	2-E	49E20668S01	Pulley, Idle (A)
54	5-D	41E20688S01	Spring, Ratchet
55	4-F	41E20687S01	Spring, Pinch Arm (R)
56	1-D	49E20686S01	Spring, Pinch Arm (F)
57	4-C	49E20670S01	Roller, HP (B)
○ 58	3-A	49E20734S01	FF Roller
● 58	3-A	49E20671S01	FF Roller
59	5-E	07E20672S01	Collar, Selector Gear
60	4-C	49E20673S01	Roller, HP (A)
61	2-A	41E20685S01	Spring, Adjuster Arm (B)
62	2-C	49E20674S01	Roller, Program
63	4-D	43E20675S01	Collar, Mute Arm
64	2-B	41E20676S01	Spring, FF / REW Lever
65	1-C	41E20677S01	Spring, Lock Lever
66	5-E	41E20678S01	Spring, Gear Lock Arm
67	4-D	41E20679S01	Spring, Eject Lever
68	4-E	41E20680S01	Spring, Eject Cam
69	2-C	41E20681S01	Spring, Head Plate
70	5-B	41E20682S01	Spring, Eject Cam Lock
71	2-C	41E20683S01	Spring, Program Arm
72	2-A	41E20684S01	Spring, Adjuster Arm (A)
75		42E20711S01	Ring, "E" (M1.5)
76		42E20712S01	Ring, "E" (M1.6)
77		42E20713S01	Ring, "E" (M2)
78		42E20714S01	Ring, "E" (M2.5)
79		03E20715S01	Screw, Bind (M1.7×3)
80	4-F	04E20716S01	Washer, Polyslider (M1.6)
81		04E20717S01	Washer, Polyslider (M1.2)
82		04E20718S01	Washer, Polyslider (M1.6)
83		04E20719S01	Washer, Polyslider (M2.1)
84	2-D	03E20720S01	Screw, Bind (M1.7×4)
85	3-D	03E20721S01	Screw, Bind (M1.7×6)
86		03E20722S01	Screw, Bind (M2×3)
87	4-D	03E20723S01	Screw, Countersink (M2×4)
88	2-C	03E20724S01	Screw, Bind (M2×4)
89	3-B	03E20725S01	Screw, Bind (M2.7)
90	3-F	03E20726S01	Screw, Bind (M2×2.5)
91	2-A	03E20727S01	Screw, Bind (M2×4)
92	2-E	03E20728S01	Screw, Countersink (M2×3)
93	3-B	03E20729S01	Screw, Flat (M2×5)
94	2-F	03E20730S01	Screw, Bind (M2×5)
95		04E20731S01	Washer, Lock (M2.1)
● 96	1-B	45E20650S01	Arm, Release
● 97	1-B	03E20732S01	Screw, Bind (M2×6)

Notes : ○ : For GS75A010 Model Only,
Others : Common.

● : For GS75A020 Model Only,

Miscellaneous

Symbol No.	Index	Part No.	Description
501	4-B	01E20699S01	Assy., Motor
502	3-A	88E20705S01	Head
503	3-D	40E20706S01	Switch, Power
504	2-D	40E20709S01	Switch, Leaf
505	1-E	40E20707S01	Switch, Slide
● 506	1-B	47E20710S01	Solenoid

Notes : ○ : For GS75A010 Model Only,
Others : Common.

● : For GS75A020 Model Only,